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MARYLAND STATE PLANNING COMMISSION

MARYLAND

FEDERAL PUBLIC WORKS PROGRAM

1924-1940

Prepared by

I. Alvin Pasarew

BUREAU OF PUBLIC ADMINISTRATION

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June 1941

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#### MARYLAND STATE PLANNING COMMISSION

## Abel Wolman, Chairman Member at Large

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June 1941

Publication No. 30-A
Maryland State Planning Commission
Latrobe Hall, The Johns Hopkins University
Baltimore, Maryland

Salah Sa

Dr. Abel Wolman, Chairman Maryland State Planning Commission The Johns Hopkins University Baltimore, Maryland

My dear Dr. Wolman:

I am pleased to submit herewith a report outlining Federal public works expenditures made in Maryland during the period of 1924 to 1940 inclusive.

This report summarizes the various activities and expenditures made by the several Federal agencies who have participated in public works construction in Maryland during the seventeen year period prior to 1941. In summarizing these data, significant highlights of each agency's functions and expenditures were presented, indicating their influence upon the type and character of projects sponsored.

Unfortunately, there appears to be a lack of uniformity in the character of factual data available from the various Federal agencies. This fact has made it extremely difficult to present in summarized form, under a uniform classification of public works, expenditures as classified in the Commission's report entitled "Public Works Expenditures for the State, Counties and Baltimore City during 1924 to 1938".

Nevertheless, when these two reports are reviewed concurrently, they will reveal the character, extent, and magnitude of public works improvements in Maryland during this seventeen year period.

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In the preparation of this material I wish to acknowledge the assistance of Mr. Thomas F. Hubbard, a staff member of the Civil Engineering Department of the Johns Hopkins University, for his critical review of the final draft of this report. Acknowledgement is also made to the Work Projects Administration for the efficient clerical and statistical assistance rendered in the preparation of this publication.

It is hoped that this report and the one entitled "Public Works Expenditures for the State, Counties, and Baltimore City during 1924 to 1958" will furnish adequate detailed data and information in retrospect to enable interested persons to more intelligently envisage and evaluate future State public works programs.

Sincerely yours

I. Alvin Pasarow

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#### FEDERAL PUBLIC WORKS PROGRAMS IN MARYLAND

This report of Federal public works expenditures in Maryland is prepared to supplement the Maryland State Planning Commission's recent report showing expenditures made by the State, counties, and Baltimore City for their public works improvements during 1924 to 1938 inclusive.

In presenting expenditures made by the Federal government, it was possible to extend the study through 1940 because of the availability of Federal data. The expenditures by State and local governments are not yet available for 1939 and 1940.

While an effort was made to segregate expenditures according to the classifications of public works as presented in "Public Works Expenditures for the State, Counties and Beltimore City during 1924 to 1938", it was found that in practically all cases, the Federal agencies supplying data could not furnish their respective material in a form enabling tabulation under such classifications. Nevertheless, these data were summerized annually and do present a clear picture of the expenditures made by the Federal government for public works improvements throughout the State, and also the purpose and extent of these improvements.

The term "public works" used in this report is intended to imply such public construction and improvements which, by their very character and durability, are of long-lesting public utility and necessity.

In considering the public works program of Maryland, consideration was given not only to routine or regular public improvements of the various Federal agencies, but also to such public works which were made possible through the various "relief" or "emergency" programs initiated since 1933.

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Since 1924, the initial year of this report, the Federal government, through many of its various agencies, was making substantial appropriations annually, principally toward the State's roads program and for dradging harbors. Annual expenditures for Federal public works construction and improvements during 1924 to 1933 averaged between \$2,000,000 and \$3,000,000, after which the Federal government undertook its vast public works construction programs.

The general trend of public works construction changed materially with the advent of the Public Works Administration and the Works Progress Administration. Significantly, this trend brought about the establishment of a medium by which the State and its political subdivisions could construct many badly needed improvements, where heretofore this was not possible because of financial difficulties. The Federal government encouraged these State and local programs by offering leans and grants, thus providing immediate employment aimed at curtailing the rapidly increasing relief rolls.

Federal appropriations for public works in Maryland increased from \$3,429,247 in 1933 to \$26,316,025 in 1934. This rose to an all time high of \$36,714,043 in 1937.

No attempt has been made in this report to analyze the various public works progrems and their effects on the social and economic structure of the State, but merely to present, in summarized form, pertinent detailed financial and statistical data on physical accomplishments throughout the State by the various Federal agencies.

# DEPARTMENT OF AGRICULTURE BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

The Bureau of Entomology and Plant Quarantine\* was created by Congress to study the life history and the habits of insects both injurious and beneficial to agriculture and forestry.

Its investigations deal primarily with the aradication of insects affecting the health of men and wild and domesticated animals and the control of plant diseases. It also conducts chemical investigations, in cooperation with other states, in the development of new insecticides and fungicides, and enforces methods of preventing the introduction of plant pests.

This Bureau, during the period of this study, spensored two projects in Maryland. During the period 1934 to 1936 the Bureau constructed an entomological laboratory, greenhouses, and a mushroom plant at the Beltsville Research Center at a cost of \$139,458. The entire cost of construction at the Research Center was borne by the Federal government.

During the period 1934 to 1940 the Bureau's work consisted solely of studies on blister rust control. This control consists of the protection of valuable pine forest by the eradication of currant and gooseberry bushes which spread white pine blister rust. This disease attacks all native species of white pine and endangers the State's existing stands as well as the young growths having an oven greater potential value. The research was not confined to any particular locality, but was conducted in areas throughout the State.

<sup>\*</sup> Created by an organizational merger provided for in the Agricultural Appropriation Act of 1935.

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The Maryland State Department of Forestry cooperated in this work by contributing \$10,654 during the years 1933 to 1940. The Federal government, as its share towards the program, contributed a total of \$95,345 during 1932 to 1940.

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# DEPARTMENT OF AGRICULTURE

### FARM SECURITY ADMINISTRATION

The Farm Security Administration\* has aided more than 800 Maryland families with low income producing farms to become self-supporting instead of being dependent upon relief for their existence.

The construction of a model 3,411 acre suburban housing project at Greenbelt, between Baltimore and Washington, was undertaken by this Administration. This development was designed to accommodate 885 urban families. Of the 3,411 acres of land purchased for the development, 120 acres were used for residential areas, and more than 3,100 acres for parks and reserves for future expansion. A total of 880 new family dwellings and 369 miscellaneous structures were constructed. Included in this total of miscellaneous structures were 363 garages, commercial buildings, and a fire house.

The project at Greenbelt is the only public works construction sponsored by this Administration in the State. Ground for this project was broken October 1935, and it was completed during 1938. It was financed, both as to planning and construction, with funds allocated from the Farm Security Administration, formerly known as the Resettlement Administration.\*

The total expenditures for the Greenbelt project for the period 1936 to 1940 amounted to \$13,404,725. This amount includes only development and construction costs and does not include any operating expenses

<sup>\*</sup> Created by the Emergency Appropriation Act, appreved 1935; known as Resettlement Administration from April 1935 to September 1937.

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One of the many noteworthy features of this development is the layout. The main streets are laid out in the pattern of a horseshoeshaped ridge. Shops, schools, and other community buildings are grouped in the center of the horseshoe where they are easily accessible from all parts of town. The houses are grouped in super blocks approximately four to five times as large as the average city block. Instead of facing the street, nearly all the houses face the interior of the block which is laid out with lawns and playgrounds. Paths, safe from traffic, run through these interior parks, and no sidewalks are necessary along the streets. In planning this development, preference was given by the Greenbelt authorities to row houses and apartments as against the construction of single dwellings.

Greenbelt does not have any farms within its corporate limits.

Produce is obtained from a farmers: market in the center of the city.

For its water supply, Greenbelt pipes its water from the near-by lines of the Washington Suburban Sanitary Commission Water District, and stores it in a 2,000,000 gallon standpipe from which it is distributed to the community.

Greenbelt has a seven-grade elementary shool. This building is used for both youth and adult education, and also has facilities for a library and arts and crafts. The auditorium in this building is also used as a gymnasium and for church services.

In planning for the future development of the community's public facilities, such as streets, sewerage works, waterworks, and schools, provisions were made in the design to allow for a three-fold expansion of the community. This was an important consideration in evaluating its cost. A considerable immediate saving could have been made if these utilities were built only to accommodate the original

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number of homes, but in that case much larger future expenditures would have been necessary as the town expanded.

The Federal government collects more than \$400,000 from Greenbelt every year. This amount includes rentals from 886 houses, garages, store buildings, and the motion picture theatre, together with the sum paid by the tenants for water, electricity, and heat.

Rentals range from \$18 to \$41 per month, with an average rental of \$31.23 which includes heat. Electricity and water consumption are billed separately on the basis of quantities used. It is estimated that the average family pays 90 cents per month for water and \$3.00 per month for electricity which is used for cooking purposes as well as for lighting and refrigeration.

Greenbelt has 885 dwellings in the town proper and one dwelling in the rural area. There are 574 units in group houses, all but 16 of which are two-story dwellings. The rental for the two-story dwellings, including heat, runs from \$29 per month for four-room houses up to \$39 per month for seven-room houses; a few units with full basements rent for \$41 per month. Five detached houses of experimental fabricated design are included in the project; these rent for slightly more than the group houses.

The remaining 306 dwelling units are in apartments. The rents charged for these units include janitor service, heat and water.

Apartment rentals run from \$18 per month for one and one-half room dwellings to \$27 per month for three room apartments. Apartments with sleeping porches cost up to \$5.00 more.

Residents of Greenbelt are selected from applicants whose incomes range from \$1,000 to \$2,200 per year. In special cases, large families with slightly over \$2,200 are also considered. The average

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 annual income of the residents of the town is between \$1,500 and \$1,700.

The following annual expenditures were made by the Farm Security Administration for the construction of this development:

Fiscal Year		Amount
1936		\$ 1,814,665
1937		8,920,854
1938		2,595,915
1939		69,949
1940		3,342
	Total	\$13,404,725

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# D E P A R T M E N T O F A G R I C U L T U R E BUREAU OF PLANT INDUSTRY

The United States Horticultural Station at Beltsville, Maryland, conducts investigations relative to problems in breeding, physiology, cultural requirements, propagation, diseases and handling and storage of horticultural crops, including fruits, nuts, vegetables, ornamental and florists, plants.

Studies are also in progress to determine the influence of the length of day on plant responses and the effects of hormones or growth stimulating substances on plant growth. This work is conducted in greenhouses, laboratories and in the field.

The nature of the facilities make it possible in some of these studies to continue the research throughout the year. Twenty-three greenhouses, forty well-equipped laboratories and seven hundred acres for field tests constitute the existing plant facilities.

The Bureau of Plant Industry\* comprises the following divisions:

Division of Fruits and Vegetables, Division of Crops and Diseases,

Division of Drugs and Related Plants, and the Division of Nematology

which deals with the disease of plants that is caused by nematodes

or eelworms.

Expenditures made by this Bureau for public works construction were for improvements at the United States Herticultural Station near Beltsville and at the United States Plant Introduction Garden at Glendale, both in Prince George's County.

Expenditures for improvements at Beltsville were made from appropriations by the Public Works Administration, totalling \$457,077

<sup>\*</sup> Created by the Agricultural Appropriations Act of 1902.

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for the fiscal years of 1934 to 1938. Additional improvements were made from regular appropriations, which totalled \$101,425 for the fiscal years 1934 to 1936. At the Glendale station, the Public Works Administration provided an appropriation in 1934 of \$17,179, while the Bureau, from its regular appropriations, spent \$55,436 in necessary improvements during the fiscal years 1924 to 1938.

Improvements made possible by the Public Works Administration at the Glondale bureau from the appropriation of \$17,179 were; quarantine greenhouse, partititions in greenhouse and installation of deep seed pit, overhauling of heating systom, and cold storage unit for seed and nursery stock with automatic temperature control throughout. From the regular appropriations of \$55,436, the following improvements were made: greenhouses, Headhouses, storage sheds, soil sterilization building, pump shelters, office and laboratory building, road and bridge construction, irrigation system, reservoir, tile drainage and sewer, electric, heating and ventilation systems.

Types of work constructed in the Beltsville area consist of water mains, irrigation and drainage ditches, roads, walks, levees, installation of electric power facilities, bank storage cellars, staff laboratories and research buildings, greenhouses, foreman's cottage, propagating house, bath and screen houses, soil and fertilizer house, hot beds, cold frames, garages, implement shed, tool sheds, fruit products laboratory, spray system, fencing, pumphouse, and sewers and septic tanks.

\*

# DEPARTMENT OF AGRICULTURE FOREST SERVICE

The work performed by the Forest Service\* includes the construction and maintenance of fire-breaks, forest-fire lookout towers and observatories, landing fields, telephone lines, forest roads and trails, and miscellaneous buildings and structures. Project workers have also planted, improved, and developed tree nurseries, thinned forest stands, combated insects and diseases, killed range-destroying rodents, eradicated poisonous plants, and aided in the development of fish and game resources. The Forest Service similarly conducts research work of various types, including surveys and studies relating to forests, ranges wild-life and the management of lands and water-sheds.

Forest Sorvice expenditures for the fiscal years 1924 to 1940, inclusive, amounted to \$2,809,505. Of this emount, \$7,700 was spent during 1924 and 1925 for cooperative experimentation in fire protection under the Weeks Act; \$152,633 for the years 1926 to 1940, inclusive, for fire protection under the Clarke-McNary Act; \$26,851 for the distribution of forest planting stock under the Clarke-McNary Act for the years 1926 to 1940, inclusive; \$2,621,283 for the years 1935 to 1940, inclusive, for work done by the Civilian Conservation Corps on other than national forest lands; and in 1940, \$1,038 was spent under the Norris-Doxey Cooperative Farm Forestry Act for tree distribution.

The work performed by the Civilian Conservation Corps for the Forest Service on other than national forest lands for the state, from April 5, 1933 to June 30, 1939, includes the following physical accomp-

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lishments; 198 bridges (foot, horse and vehicle); improvement and enlargement of three diversion dams; 380 rods of fence; 204 miles of telephone lines; 2,223 signs, markers and monuments; 319 miles of truck trails or minor roads; 60 miles of foot trails; 753 acres of field planting or seeding (trees); improvement of 43,185 acres of forest stand; improvement and development of nurseries (2,729 man-days); fighting of forest fires (16,925 man-days); construction of fire breaks (14,900 miles); fire hazard reduction, readside and trailside (730 miles); other fire hazard reduction (12,900 acres); fire prevention (476 man-days); tree and plant disease control (27,459 acres); tree insect past central (4,781 acres); moving and planting of 4,110 trees and shrubs; construction of 9,127 square yards of parking areas and parking over-looks; razing of understrable structures and obliterations (4,976 man-days); emergency work (6,372 man-days); surveys (4,733 man-days) and 54,852 acres of timber estimating.

Work done in the field by the Civilian Conservation Corps from 1933 through 1939 was conducted in the following counties: Garrett, Allegany, Prince George's, Charles, Washington, Howard, Frederick, Worcester, Somerset, Dorchester, Wicomica and Baltimore County.

### Beltsville Research Center (Forest Service)

The area under the jurisdiction of the Forest Service at the Beltsville Research Center comprises approximately 1,800 acres, practically all of which is under some form of forest cover.

The recent completion of the Center's physical plant facilities form a nucleus for its projected future activities. These facilities consist of an office laboratory building, a residence dormitory, a garage store-room and two residences.

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The program of research now being formulated is devoted chiefly to certain phases of tree physiology and soils. The prospective program contemplates work on: (1) national problems concerning planting and forest production and (2) the problem of management of the forst resources in its experimental tract.

Because of the certain natural advantages such as opportunities for inter-bureau contacts, together with adequate and free interchange of both ideas and personnel with other field stations, this new forest service laboratory and experiemental area should facilitate an integrated and forceful approach to many forest problems, thus rendering their solution more probable.

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The Service operates a domonstrational area at Catectin.

Four project headquarters have been installed in Maryland. They are: (1) Beltsville Community Housing Project, Headquarters at Beltsville in Prince George's County; (2) Carrett County Project, Headquarters at Grantsville in Carrett County; (3) Eastern Shore Project, Headquarters at Salisbury in Wicomico County; (4) Catectin Project, Headquarters at Thurmont in Frederick County.

- (1) The Beltsville Community Housing Project provided for the supervision, planning, acquisition and purchase of land for housing facilities.

  This work, which was performed during the fiscal years 1936, 1937 and

  1938, amounted to \$46,741. There were no expenditures during 1939 and 1940.
- (2) The Carrett County Project provided for the purchase of land and the protection, supervision and improvement of the land acquired. This included stand improvement; seed collection and nursery work; fire hazard reduction; plant disease control; biological conditioning; stream improvement; forestry and wild life improvement; soil erosion control; and development of an organized group camp with camping and recreational facilities. A sum of \$855,039 was spent during the fiscal years 1936 to 1940, inclusive.
- (3) The Eastern Shore Project provided for the purchase of land and the protection, supervision and improvement of the land acquired. This consisted of considerable forestry development and seed collection; nursery work; biological conditioning; fire hazard reduction; drainage work; soil erosion control; and development of camping, recreational and administrative facilities. Amounts expended during the fiscal years 1936 to 1940, inclusive, totaled \$506,846.
- (4) Catoctin Project provided for the purchase of land, protection, supervision and improvement of the land acquired. This program included reforestation, soil erosion control, development of a children's and family

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vacation camp. The cost of this work, which was performed during the years 1936, 1937 and 1938, amounted to \$146,535.

The cost of supervision and work performed on the four projects amounted to \$1,555,161 for the fiscal years 1936, 1937 and 1938. 

Beltsville Research Center (Soil Conservation Service)

The Soil Conservation Service is also cooperating in the development of the Department of Agriculture Beltsville Research Center at Beltsville. However, the activity of the Soil Conservation Service is financed from funds made available for other purposes as well, and the portion applicable to the Beltsville Research Center cannot readily be determined.

This unit is developing an area for testing practices applicable to a wide variety of problems of interest to the State's soil conservation program. This area consists of approximately 1,700 acres.

The work at the station features both research and observational studies dealing with the economic value of crosion-resisting plants, and with practical methods of improving and utilizing hill and crodible land in accordance with sound soil and water conservation principles. This work is a cooperative undertaking of the Soil Conservation Service, the Maryland State Agricultural Experiment Station and interested bureaus of the Department, especially the Bureau of Plant Industry. Work is now in operation by the Hillculture Division, Nursery Division, Forestry Division, and the Climatic and Physiographic Division.

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### DEPARTMENT OF AGRICULTURE

#### SOIL CONSERVATION SERVICE

The name, Soil Conservation Service\*, is only a partial clue to the scope of the Bureau's many activities. Established in 1933 as an emergency agency, almost exclusively for the job of soil erosion control, its functions were permanently established by the Soil Conservation Act of 1935.

Today, however, this organization is helping farmers to make constructive changes in the physical treatment of their land, the object being to conserve the soil and water resources and provide for the greatest utilization and benefits from these resources. The program consists of the adoption of modern conservation farming practices, the development of farm woodlands as an economic asset and conservation measure, and the treatment of the land to help in controlling and preventing floods.

In essence, its program cims to bring about the most desirable adjustments in the use of agricultural land.

The Seil Conservation Service has been of much benefit to the State through its various programs for the control of soil erosion. According to reliable estimates, some 200,000 acres of land were being virtually destroyed each year, and the fertility of a still larger area was being constantly impaired. Upon a national basis, the estimated cost of such losses is conservatively placed at \$400,000,000 annually. The Soil Conservation Service also has proven very beneficial through its programs relating to flood control, purchases and development of submarginal land, water facilities, soil conservation research, farm forestry, and erosion control assistance.

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# DEPARTMENT OF AGRICULTURE BUREAU OF DAIRY INDUSTRY

The Bureau of Dairy Industry\* is one of a number of bureaus carrying on independent research at the Beltsville Research Center.

Its investigations pertain to dairy cattle breeding, feeding and management, which includes studies in the effectiveness of line breeding; out-breeding and in-breeding; in fixing inheritance for producing ability in dairy cattle; studies to determine the effect of nutrition and exercise; the relation of conformation and anatomy of dairy and beef cattle; and studies of growth of dairy cattle. Herds of registered Holstein-Friesian and Jersey cattle are maintained for experimental purposes.

Experiments are being conducted to determine the value of the European rotation and fertilizer methods of pasturing compared with the usual method of continuous grazing as practiced in the United States. Various methods of ensilaging grasses and legumes are being tested, and the relative losses of nutrients resulting from these methods are being determined.

Investigations in connection with nutrition, physiology of milk secretion and reproduction of dairy cattle are also under way at the Research Center.

Market-milk investigations, also conducted by this Bureau, involve the manufacture of dairy products and by-products on a semi-factory scale as a test of the results of leboratory experimentation.

Now or improved processes of manufacture are being constantly developed

<sup>\*</sup> Created by Public Act 156, 68th Congress, 1924; the present name appeared in the Agricultural Appropriation Act of 1927.

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and tested to discover and remedy manufacturing defects. The principal activities now conducted include cheese making (both American and Swiss), casein production, manufacture of milk sugar, powdered milk, and condensed whole milk, skim milk and whey.

Improvements and expenditures made by the Bureau of Dairy Industry during the fiscal years of 1924 to 1940, from both regular and emergency funds, are herewith enumerated under the following three classifications: (1) Construction of Buildings; (2) Non-structural Improvements: and (3) Remodeling of Buildings.

### (1) Construction of Buildings:

5 concrete silos

1 concrete straw barn

l concrete bull barn

l concrete boiler house

1 concrete nutrition bern

1 frame pump house

3 frome hay sheds

l tile garage

1 frame feed shed

l concrete sutapsy building

1 frame animal house

1 concrete maternity barn

1 frame hay barrack

1 frame cow shelter

1 concrete animal hospital

2 concrete cow barns

3 cement stave silos

l sile shed

1 frame and concrete mule barn

1 concrete carpenter shop

l frame quarantine barn

1 concrete mechanical superindent cottage

1 concrete scale house

2 frame scale houses

l concrete physiological laboratory

1 brick incinerator

l concrete nutrition laboratory

1 concrete milking shed

1 frame nutrition laboratory

2 frame young stock sheds

l concrete milk producing laboratory

house

The cost of construction of these buildings during this period amounted to \$448,163 of which 136,923 was appropriated from regular and 311,240 from emergency funds.

(2) Non-structural Improvements: Fancing, grading of roads and walks, water system, sewerage system, electric system, underground steam system and spray pand. The cast of these improvements, made during the fiscal years 1924 to 1940 inclusive, amounted to \$13,896 from regular and \$151,299 from emergency funds, a total of \$165,195.

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(3) Remodeling of Buildings: Frame superintendent's house, concrete herdsman's cottage, concrete administration building, frame dairy barn and silo shed, frame and concrete calf barn, and frame test barn. Remodeling costs for the fiscal years 1924 to 1940, inclusive, amounted to \$18,573 from regular and \$50,308 from emergency funds, a total of \$68,881.

The entire cost for construction, improvements and remodeling of buildings by this Bureau during this period amounted to \$169,392 from regular and \$512,847 from emergency funds, a total of \$682,239.

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# DEPARTMENT OF AGRICULTURE RURAL ELECTRIFICATION ADMINISTRATION

The Rural Electrification Administration\* might be termed unique in that it is one of the few agencies set up under authority of the Emergency Relief Appropriation Acts that will ultimately prove self-liquidating. This is primarily due to the fact that the Rural Electrification Administration makes no outright grants. All funds allocated for this program are for loans which are both self-liquidating and interest bearing.

The operations of the Rural Electrification Administration have proven so successful that for the fiscal year of 1939, appropriations for that agency were boosted to \$140,000,000; three and one-half times the sum granted for each preceding fiscal year since 1935.

In the short span of four and one-half years, from May 1935 to December 1939, the Rural Electrification Administration financed power lines which stretched 180,000 miles through 45 states. In addition, there are 80,000 miles of power lines and 36 generating plants for which funds have been allotted and which are either under construction or in the planning stage. When this additional work is complete, the Rural Electrification Administration will have been the medium through which electric service was made available to approximately 750,000 consumers throughout the nation.

Prior to 1935, less than 7,000 or approximately 15% of the State's 44,000 odd farms were directly connected to central station power lines. However, largely through the cooperation of the Rural Electrification Administration, and the cooperatives receiving loans from this agency,

<sup>\*</sup> Created by Executive Order, 1935, under authority of Emergency Relief Appropriation Act of 1935.

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The second secon  15,000 or approximately 33% of Maryland farms were connected to a source of electric power by June 1939. As compared to the national average of 22.1%, Maryland enjoyed greater benefits from this program than did most states throughout the country.

These leans made by the Rural Electrification Administration to conseratives in Maryland amounted to \$1,008,000 from 1936 through November 1940. Of this total, \$112,500 was used in the construction of a generating plant to provide electric power to consumers in Southern Maryland.

There are two Rural Electrification Administration Cooperatives in the State of Moryland: "The Choptank Cooperative, Inc.", on the Eastern Shore, and the "Southern Maryland Tri-County Cooperative Association", in Southern Maryland.

The "Chaptenk Cooperative, Inc.", had received aggregate allotments of \$449,000 by June 1940. Upon final expenditure of those funds, construction will have been completed on 510 miles of power line servicing approximately 1,263 consumers in Caroline, Cacil, Darchester, Kent, Queen Anne's, and Talbet Counties. This agricultural area is devoted largely to poultry raising and to vegetable packing and canning. In poultry raising, farmers throughout this area, as well as those throughout the nation, have learned the value of electricity. On the Eastern Shore, the complete modernization and mechanization of packing and canning plants, made possible by the availability of electric power, have done much to make operation more efficient and economical.

The "Southern Maryland Tri-County Cooperative Association", had received aggregate allotments of \$559,000 by June 1940. Construction from funds allocated will witness the completion of 324 miles of line servicing about 1,153 consumers in Charles, Prince George's and St.

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Mary's Counties and the construction of a \$112,500 generating plant. The farmers in these three counties are chiefly interested in tobacco raising; however, recent trends have emphasized an increase in production of dairy and poultry products. It is believed that experiments now being conducted will develop economical application of electric power for the drying and curing of leaf tobacco. The value and multiple uses of electricity in dairy and poultry production are manifest.

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### DEPARTMENT OF COMMERCE

#### CIVIL AERONAUTICS AUTHORITY

The Civil Aeronautics Authority\* has established air navigation facilities on federal airways which extend through Maryland. The work was accomplished on contract and force account basis with funds made available by the Civil Aeronautics Authority.

The following list constitutes a summary of the individual projects sponsored by the Authority and their costs:

- 1. Construction of intermediate field near Bowie 1929-1930, at an approximate cost of \$6,000.
- 2. Rotating beacons established near Riverdale, Glenburnie, Perry Point, and Elkton in 1931-1932, at an approximate cost of \$9,000.
- 3. Radio fan marker (experimental), Bowie, in 1935-36, expenditure approximately \$5,000.
- 4. (a) Bercons near Middle River, Aberdeen, Iron Hill Ridge, and Hazen; cost \$10,000 and
- (b) A radio ultra-high frequency for marker at Mason Springs in 1937-1938; cost \$7,000.
- 5. Beacon near Phoenix in 1938-1939, at an approximate cost of \$2,500.
- 6. Medium power loop type radio range station with teletype weather reporting service at Baltimore, Maryland, in 1939-1940, expenditure approximately, \$35,000.

<sup>\*</sup>The Civil Leronautics Authority was created by the Civil Aeronautics Act of 1938 and approved the same year, "to promote the development and safety and to provide for the regulation of civil aeronautics." The Act provided for the transfer to the Authority of the personnel, property and unexpended balances of appropriations of the Bureau of Air Commerce of the Department of Commerce and of the Bureau of Air Mail of the Interstate Commerce Commission. This was accomplished by Executive Order, August 22, 1938.

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In addition to these air navigation facilities which actually serve as aids to navigation, the Civil Aeronautics Authority has also conducted a considerable amount of experimental work in the State, particularly at the experimental station near Silver Hill, and in connection with an experimental teletype station near Baltimore.

Detailed data on cost of these experimental stations is not available at this time, inasmuch as the Civil Aeronautics Authority records are not broken down to show construction cost figures as against the cost of experimental work, nor the cost in connection with maintenance and operation.

In addition to the construction of these Federal facilities, the State has made expenditures annually for the maintenance, repair and expertion of air navigation facilities in connection with its experimental work.



# FEDERAL SECURITY AGENCY CIVILIAN CONSERVATION CORPS

Under the Act creating the Civilian Conservation Corps\*, suthority was granted this agency to promote and participate in the protection, restoration, regeneration, improvement, utilization, and maintenance of the natural resources of land and waters and their products, including forests, fish, and wildlife. The work includes the prevention and control of forest fires, forest tree pests and diseases, soil erosion, and floods. No projects are undertaken on lands other than those belonging to, or under the jurisdiction of, the United States, unless adequate provisions are made by the cooperating agencies of the states for the maintenance, operation, and utilization of such projects after completion.

The Civil Conservation Corps operates twenty-one camps in Mary-land engaged in the restoration and the protection of the State's natural resources. Of these twenty-one camps, six are operating in State Forests, three in National Agricultural Research Centers, seven in Soil Conservation Service, three in National Parks and two in State Parks.

During the month of August 1939, there was an average of 3,955 C.C.C. enrollees doing conservation work in the State. Enrollees with Maryland residence, however, totaled 2,861. Since April 1933, the C.C.C. has furnished employment to over 21,000 Maryland enrollees between the ages of 17 and 23 and to 4,000 non-enrolled personnel from out of the State.

<sup>\*</sup> Created and approved in 1937 succeeding the agency known as Emergency Conservation Work. Effective 1939, the Civilian Conservation Corps was made a part of the Federal Security Agency in accordance with the Reorganization Act of 1939.

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The C.C.C., together with the five cooperating departments of War, Interior, Agriculture, Labor, the Veterans Administration, and the large group of State relief and conservation agencies, has directed its major efforts to the attainment of the triple objective of alleviating unemployment, reclaiming and improving unemployed youth, and rehabilitating and conserving the nation's natural resources.

During the fiscal years of 1933 to 1940 inclusive, the amount expended in Maryland by the C.C.C. was \$31,576,462.

Among some of the many physical accomplishments completed by the C.C.C. program from April 1935 through June 30, 1937 were:

(1)	Fighting forest fires	•	•		•	•	•	30,375	man-days
(2)	Lookout houses and towers		•	•	•		•	18	
(3)	Tree disease control	•		•	•	•	•	23,247	acres
(4)	Truck trails and minor roads	•	•	•	•	•	•	384	miles
(5)	Fire breaks	•	•	•	•		•	841	miles
(6)	Fire hazard reduction		•	•	•	•	•	13,500	acres
(7)	Forest stand improvement			•	•	•	•	36,865	acres

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### FEDERAL SECURITY AGENCY

#### NATIONAL YOUTH ADMINISTRATION

The National Youth Administration\* was created by Congress to aid young people through a program which embodied (1) Student Work Program: furnishing part-time employment to needy secondary school, college and graduate students unable otherwise to continue their studies; (2) out-of-school Work Program: by providing part-time employment to out-of-school needy youths, chiefly from relief, on projects designed to afford valuable work experience; (3) Guidance and Placement Program: the establishment of job training, counseling, and placement services; and (4) Leisure Time Activities: encouragement and development of constructive leisure time activities for youths.

In the State of Moryland, \$1,091,602 was expended by the National Youth Administration in furtherance of this program, of which \$252,776 was spent for various types of construction projects, and \$838,826 was spent for wages paid to needy high school, college, and graduate students to enable them to continue or complete their scholastic work.

School students employed were assigned to such jobs as clerical work, supervision of playground activities, and to assist in libraries and cafeterias. College and graduate students not only worked in the administrative offices of colleges, libraries, and museums on such phases of work that the university could not normally provide for from its operating expenses, but also in research and work closely related to their particular field of collegiate study.

<sup>\*</sup> The National Youth Administration was established within the Works Progress Administration on June 26, 1935 under the authority of the Emergency Relief Appropriation Act of 1935; it was transferred to the Federal Security Agency, effective July 1, 1939.

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The National Youth Administration, as part of its program, was engaged in public works construction and improvements on a limited scale. Along this line, the Administration sponsored such activities as grading and improving school grounds for recreation; construction and eraction of bus shelters for school children; landscaping, building log cobins and improving recreation facilities; sewerage works improvements; improving, repairing and pointing schools; water main installation; scaling coal mines in Allegany County; flood rehabilitation work at schools; construction of fish pends, drainage ditches, and forestry work; maintenance of buildings and equipment at the University Hospital, Maryland House, Carroll Mansien (in Baltimore City); construction of parking areas, bridges, and fireplaces; dismantling buildings and salvaging materials; repairing buildings and setting up school and recreation equipment for the Board of Education in Caroline County.

TYPES OF PROJECTS AND EXPENDITURES BY THE N.Y.A.

IN THE STATE OF MARYLAND

(Fiscal year onding June 30, 1939)

Types of Projects	1935-36	1936-37	1937-38	1938-39	Total
Highways	\$ 182	\$ 712	90	\$	\$ 984
Schools	10,601	6,926	12,681	25,984	56,192
Recreation	757	904	7,134	63,597	72,392
Public Buildings .	3,457	23,484	21.874	29,087	77,902
Conservation	212			1,072	1,284
Miscellaneous		29	~~~		29
Multiple	4,970	13,015	9,137	16,871	43,993
Totals	\$ 20,179	↑ 45 <b>,</b> 070	\$ 50,916	*136,611	3252 <b>,7</b> 76

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### FEDERAL WORKS AGENCY

### PUBLIC ROADS ADMINISTRATION

The Bureau of Public Roads\* administers the regular Federal aid funds for highways, the emergency appropriations for road construction, and those for the construction of forest roads. A large portion of the work is done cooperatively with the state highway departments, and contact with them is maintained through regional and district offices and state representatives. It conducts research into highway design, construction, transportation, and economics as an aid to the proper administration of Federal road funds. The Bureau also supervises the construction of national park roads for the National Park Service of the Department of the Interior.

During the seven years, 1933 to 1940, inclusive, the road building in the State of Maryland has been stimulated by Federal aid for the purpose of (1) providing employment and (2) building up an integrated system of State highways and secondary roads in a national highway system.

Extension of improvement of the Federal mileage in the State, but also, through the expenditure of emergency funds, of other state roads. Other work for which Federal funds have been expended includes the elimination of railroad grade-crossing hazards by the building of everpasses, underpasses and the relocation of dangerous crossings. Feeder or secondary roads have been improved to provide satisfactory farm-to-market roads in rural cross. At first, emphasis was placed on the improvement of the main truck highways. However, during the

<sup>\*</sup> The functions and personnel transferred from Department of Agriculture to Federal Works Agency and the name changed to Public Roads Administration under authority of Reorganization Plan No. 1, effective July 1, 1939.

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past two years, the feeder or secondary roads program has assumed increasing importance.

In Maryland, from October 1933 through September 1938, 411.6
miles of roads were improved with the aid of regular and emergency
Federal funds. This mileage included (1) Federal aid roads for which
construction costs were equally borne by the State and Federal governments and (2) road improvements carried out entirely with Federal funds.

The Federal program of grade crossing elimination and protection in Maryland has resulted in the elimination of thirty-three grade crossings and the installation of flashing light signals at more than forty corssings. This particular type of work was completed during the period 1934 to 1938. Figures for other years are not available.

During the decade 1924 to 1934, the Federal government expended \$8,019,970 as its share in the development in the Maryland Highway system. The effect of Federal aid to the State, subsequent to 1934, is appreciable. The State received over \$22,000,000 for the period 1934 to 1940 for the construction and improvement of its highways.

Moryland, in cooperation with the Public Roads Administration, created a Highway Planning Survey which is now under the jurisdiction of the State Roads Commission. The preparation of a road inventory, a traffic survey and a financial and road-use inventory constitutes the work of this Survey. The following smounts were appropriated by the Bureau of Public Roads for the work of this Survey: in 1935, \$27,151; in 1936, \$72,575; in 1937, \$15,375; in 1938, \$26,591; in 1939, \$25,935, and in 1940, \$17,177. These appropriations for the Highway Planning Survey are not included in the annual totals for the Public Roads Administration shown on the following page.

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### FEDERAL FUNDS APPORTIONED TO MARYLAND DURING THE FISCAL YEARS 1924 to 1940

	GRANTS IN AID	FEDERAL AID	GRADE	HIGHWAY	FEEDER	GRAND TOTAL
1924 1925 1926 1927 1928	\$	\$ 544,541 635,945 641,483 634,624 635,119	\$ 	\$	Ů	\$ 554,541 635,945 641,483 634,624 635,119
1929 1930 1931 1932 1933		634,906 633,615 1,734,758 895,409 1,019,570				634,906 633,615 1,734,758 895,409 1,019,570
1934 1935 1936 1937 1938	1,591,920 1,000,000  4,424,486*	3,564,527 1,810,058 1,025,870 1,025,870 1,043,938	2,061,751	1,750,738	208,787	5,156,447 2,810,058 4,838,359 1,025,870 6,197,204
1939 1940		1,018,447 846,765	509,840 200,663		203,689 123,205	1,731,976 1,170,633
GRAND TOTAL	<b>\$7,</b> 016,406	;18,355,445	\$3 <b>,</b> 292 <b>,</b> 24 <b>7</b>	51 <b>,7</b> 50 <b>,</b> 738	\$535 <b>,</b> 681	\$30,950,5 <b>17</b>
			SUSJ	MAC RIVER ERI UEWANNA RIVER APTAKE BEACH	BRIDGE	\$ 2,351,970 2,041,132 31,384

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### FEDERAL WORKS AGENCY

### WORKS PROJECTS ADMINISTRATION

The Works Projects Administration, better known as the W.P.A. was created in 1935 to operate in cooperation with local governmental agencies as sponsors in the promotion of programs embodying useful public works projects, which, primarily, were to aid needy unemployed persons by providing work. At the same time it was hoped that such a program would stimulate employment opportunities in other industries, particularly those producing capital goods.

After January 1, 1940, sponsoring agencies were required to participate in this program by providing funds, services, and facilities to the extent of 25% of the total project cost. Further, these projects were planned to provide employment suitable to the skills and work experience of such needy workers as were to be found on the local relief rolls and such projects had to involve useful public improvements which could not otherwise be accomplished as a regular function of the sponsoring agency.

As of June 28, 1939, an estimated 13,941 persons were employed in Maryland on projects sponsored by the W.P.A. Total Federal funds expended in Maryland from the beginning of the program to June 30, 1940 amounted to \$36,110,882. The annual expenditures for the several W.P.A. programs, for the work performed by the Construction Division of the Work Projects Administration were:

Fiscal Year Ending	Federal Funds	Sponsor's Funds
6-30-36	\$ 7,632,131	\$ 580,492
6-30-37	8,441,227	1,004,201
6-30-38	5,410,107	2,356,981
6-30-39	7,681,887	3,023,303
6-30-40	6,945,530	2,696,023
	\$35,110,882	\$9,661,000

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In addition to the above, W.P.A. funds were expended through other Federal agencies as part of the bast emergency programs on miscellaneous projects throughout the State.

These projects were planned and sponsored by local public agencies. In practically all cases, the local agencies contributed to the cost of the project and in most cases provided local supervision.

As indicated above, the W.P.A. did not entirely conduct a Federal program. It required local planning, initiative, and financial support which resulted in a partner relationship between Federal and local governments.

The local community's contribution to the project paid the major portion of the cost of materials, supplies, and equipment. This reduced the Federal expenditures for these purposes, permitting the major portion of the Federal funds to be paid in direct wages to needy relief individuals.

It is estimated that every Federal dellar spent in this manner was divided as follows: 86¢ paid direct to the workers in the form of wages: about 3¢ for administrative expenses, other than pay rolls, and the remaining 11 cents for materials and equipment. Work Projects Administration operations have substantially expanded and improved the public facilities of the State of Maryland. Work accomplishments through June 30, 1940 are as follows:

HIGHWAYS; ROADS AND STREETS		Number Amoun		New Con- struction	Improve- ments
Highways, Roads and Streets	(total)	1009	miles		
Rural Roads	11	692	11		
High-type surface	11	219	11	93	126
Low-type surfaced and					
unsurfaced	19	473	11		
Urban streets and alleys	11	194	**	~ = ~ ~ ~	
High-type surface	11	162	**	14.6	16
Low-type surfaced and					
unsurfaced	11	32	**		



	Number or Amount	New Con- struction	Improve- ments
HIGHWAYS, ROADS AND STREETS (cont	d)		
Other roads (in parks, etc) (Total High-type surfaces " Low-type surfaced or	) 122 miles 76 "	49	27
unsurfaced	46 "		tad Atl a
Bridges and Viaducts " Wood bridges and viaducts	196 156	96 71	100 85
Stall bridges and viaducts Masonry bridges and viaducts	22 18	7 18	15 0
Culverts	3751	3613	138
Road Drainage	198 miles 187 "	125 115	73 72
Ditch Pipe	11 "	10	1
Sidewalks and paths "	162 "	145	17
Payed sidewalks and paths Unpayed sidewalks and paths	157 <b>"</b> 5 <b>"</b>	140 5	17 O
Curbs	218 "	203	15
Gutters	240 "	219	21
Road and Street Lighting		w=w	
Number of light stands Miles of road equipped	110 6 miles	5 <b>1</b> 5	59 1
Guard rails and guard walls	8 "	7	1
Traffic signs erected	3650		
Readside landscaping	459 miles	0	459
PUBLIC PULLDRIGS (excluding Utilit Plants & Airport Bldgs.)	У		
Public buildings (total	1) 1254	163	1191
Educational buildings "	487	14	473
Libraries	27	1	26
Schools	400	13	447
Recreational buildings " Auditoriums	52 <b>7</b>	28 3	24 4
Gymnasiums Other recreational bldgs.	1 4	0 25	1 19

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	Number or Amount	New Con- struction	Improve- ments
PUBLIC BUILDINGS (cont'd)	The Control of the Co		
Office and administrative bldgs.	57	9	48
Hospitals	15	0	15
Penal institutions	4	0	4
Dormitories	55	2	53
Fire houses	70	3	67
Garages	43	9	34
Storage buildings	148	15	133
Armories	19	5	14
Barns and stables	56	36	20
Other Public buildings	348	42	306
Number of buildings demolished	61	ear (ap 60)	
OUTDOOR RECREATIONAL FACILITIES			
Stadiums, grandstands and bloachers	24	20	4
Fairgrounds and rodeo grounds	ı	1	1
Parks	53	13	40
Playgrounds (Total) School playgrounds Other playgrounds	112 96 16	13 3 10	99 93 6
Athletic fields	214	159	55
Horseshoe courts	4	4	0
Tennis courts	73	28	45
Swimming pools	2	2	0
Wading pools	3	3	0
Ice Sketing area	(64,000 sq. ft.	) 1	
Band sholls	3	1	2
Outdoor theaters	1	1	0
Golf courses	8	4	4



	Number Amount	· · · · · · · · · · · · · · · · · · ·	- 36 Improve- ments
PUBLIC UTILITIES AND SANITATION			
Utility Plants (total) Electric power plants Incinerator plants Pumping stations Sewage treatment plants Water treatment plants	19 1 2 4 11 1	13 0 1 2 1 <b>9</b> 0	6 1 2 1
Water mains and distribution lines	J.J.J. 1	miles 98	13
Water consumer connections	4077	3448	629
Water wells	3	3	0
Storage tanks, reservoirs, etc.	15	11	₹ <u>3</u>
Storage dams	1	1	0
Storm and sanitary sewers	157 1	miles 152	5
Sewerage service connections	6007	5610	397
Manholes and catch basins	5176	4761	415
Sanitary privies	11637	11544	93
Sealing abandoned mines	2734	2 <b>7</b> 34	0
Mosquito control (acres drained)	30	30	0
Telephone and telegraph lines	14 )	miles 14	0
Police, fire-elarm and traffic signals	9 (miles	of line)	0
Electric power lines	29 i	miles 28	1
Flood lighting athletic fields, parking lots, otc.	4	4	0
Pipe lines (other than water and sewer)	2 :	miles l	ı
FLOOD AND EROSION CONTROL, IRRIGATION AND CONSERVATION			
Fish katcheries	5	4	1.
Firebreaks	111	miles 111	0
Oysters (planting-bushels)	167,289	167,289	0
Levees and embankments	7,171	lin. ft.7,171	0
Jetties and breakwaters	788	" " 788	0

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	Number Amour		New Con- struction	Improvo-
FLOOD AND EROSION CONTROL, IRRIGATION AND CONSERVATION (cont'd	)			
Bulkheads	24,988	lin. ft.	22,168	2,820
Retaining walls and revetments	116,932	11 11	105,443	11,489
Riprap (square yards of surface)	26,391		25,986	405
River bank and shore improvement	9	miles	0	9
Stream bed improvement	22	11	0	22
Conservation, Flood and Erosion Control Dams Diversion Dams Other Dams	4 1 3		4 1 3	0 0
AIRPORT AND AIRWAY FACILITIES				
Airport and lending areas (total)	3		1	2
Military, Naval and Coast Guard Landing areas	1		0	1
Commercial airports	2		1	ı
Airport Facilities				
Landing fields	2		1	1
Runways (total) High type surface	4810 4810		4810 4810	0
Airport buildings (total)  Aministration terminal  Hingars  Other airport buildings	21 2 5 14		2 1 1 0	19 1 4 14
Taxi strips (total) High-typo surface	1600 1600	lin. ft.	1600 1600	0
Airport drainage Pipo drain French drain	9192 8692 500	11 11	9192 8692 500	0 0 0
Landing areas flood-lighted	2		1	1
Boundary lights (number of light standards)	54		54	0
Airway markers	116		116	0
Airway beacons	1		0	1



	Number or Amount	New Con- struction	Improve- ments
MISCELLANEOUS ITEMS			
Cometeries	1	0	1
Lendscaping and beautification other than readside and in parks, etc.	1217 acres	0	1217
Ornamental pools and fountains	5	5	0
Monuments and historic markers	1	ı	0
Drainage (other than read, air- pert, or mesquite centrel)	172,171	971	171,200
Fencing	77 miles	42	35
Tunnels	2	2	0
Docks, wharves and piers	30	13	17
Artificial channels other than irrigation drainage	l mile	1	0

The Works Progress Administration was created May 6, 1935, and was continued by the Emergency Relief Appropriation Acts of 1936, 1937 and 1938. The name of the Works Progress Administration was changed in July 1939 to Work Projects Administration by the Reorganization Plan No. 1. The FERA Act of 1939 extended the Work Projects Administration until June 30, 1940.

# TYPES AND COST OF PROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN MARYLAND, BY COUNTY (Accumulative as of June 30, 1940)

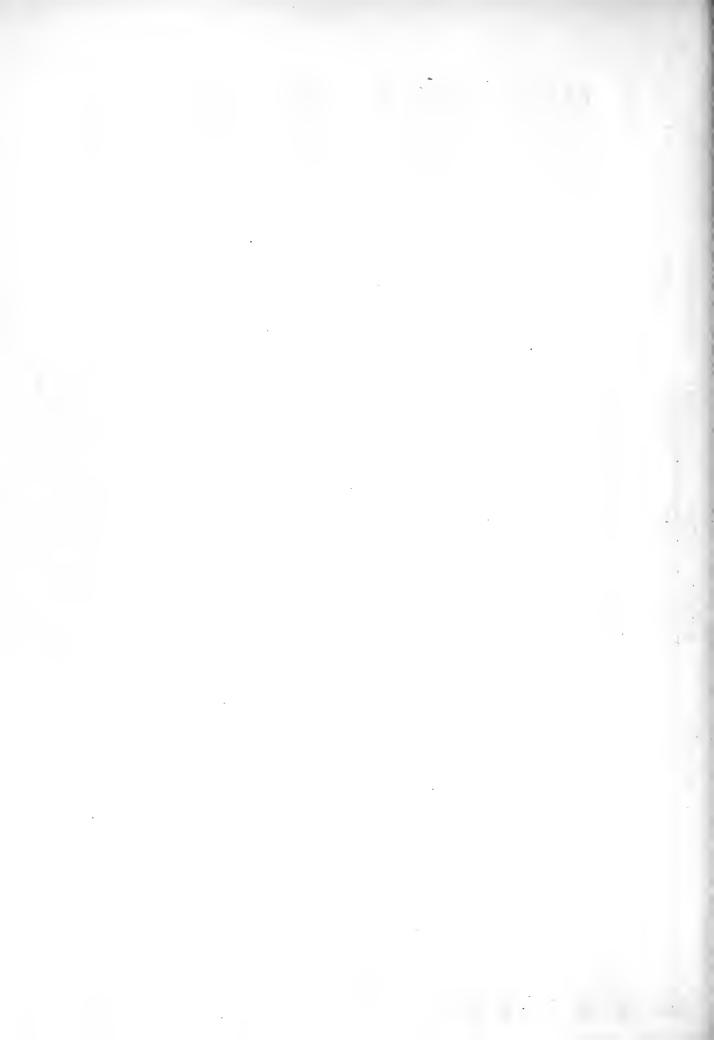
Type of Project HIGH MYS Frimary Roads	(Accum	(Accumulative as of June 30,  ALLEGAMY COUNTY  Total  Federal  Sponsor and Sponsor	COUNTY Total Federal and Sponsor	Federal 237;017	ARRIE ARRIVEL COURTY Spensor 111,462	1 1 1
Frimary Roads Secondary Roads and Feeders Streets and Alleys Other Highways, Roads, and Streets	1,451;435 946;625 124,643 2,522,903	372;863 265;752 78,853 727,468	1;824;298 1,212;377 203,696 3,240,371	237,017 141,64,3 86,121 258,300 723,081	111,462 66,035 57,669 89,291 324,457	345,479 207,678 143,790 347,591 1,047,538
Totals PUBLIC BUILDINGS Educational Buildings Other Buildings	2,522,903 1,363 23,808	7 <u>1</u> 7,468 6,734 6,734	3,240,371 2,133 30,542	723,081 115,484	324,457 78,572	1,047,538 194,056
Totals RECREATIONAL FACILITIES, EXCEPT BLDGS.	. 25 <b>,</b> 171 433,384	7,504 135,700	32,675 569,084	115,484	.78,572	194,056
PUBLIC UTILITIES Water Purification and Supply Sewage Collection and Disposal	318;238 279,811	175;748 63,175	493;986 342,986	32;807 122,334	58 <b>;</b> 685 65,394	91 <b>;</b> 493 1 <i>87</i> ,728
Totals COMSERVATION Land and Water Conservation Other Conservation Totals	598,049 182;439 3,699 186,138	23 <b>2,</b> 923 43,438 1,733 45,171	636,972 255,877 5,432 261,309	155,14,1 19,525 19,525	124,080	279,221 22,965 22,965
SANITATION OTHER OPERATIONS	201,162 10,227	108,036	309,218 15,871	e,018 258,613	10,970 112,918	18,988 377,531
County Totals	3,977,054	1,258,446	5,235,500	1,279,862	660,4,37	1,940,299

(continued)

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## TYPES AND COST OF PROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN MARYLAND (Accumulative as of June 30, 1940)

	ATOMINATION	17	omic 70, 1740/			
		BALTIMORE COUNTY	UNTY		BALTIMORE CITY	
			Total Federal			Total Federal
Type of Project	Federal	Sponsor	and Spors or	Federal	Sponsor	and Sponsor
HIGHWAYS		, .				
Primary Roads	638;146	278;575	916;721	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Secondary Roads and Feeders	311,106	167,185	478,291	7,070,014	GRØ-KEL	7000 TAB
Other Highways, Roads, and Streets	.114,749	46,269	161,018	1,325,803	-, 262,095	1,587,898
Totals	1,070,416	493,919	1,564,335	7,296,747	1,220,739	8,517,486
PUBLIC BUILDINGS	, , , , , , , , , , , , , , , , , , ,		11 · · · · · · · · · · · · · · · · · ·	2002000	ET 02377	37.506.300
Other Buildings	370,942	21,723	392,665	1,006,621	128,208	1,134,829
Totals	370,942	21,723	392,665	3,084,549	646,579	3,731,128
RECREATIONAL FACILITIES EXCEPT BLDGS.	•	•	•	2,333,081	351,698	2,684,779
PUBLIC UTILITIES	:	·			:	:
Water Purification and Supply	174,779	51,237	226;016	016,466	124;128	1,118,738
Other Utilities	+0,04+	しゅれたし	4000	901,183	96,277	997,460
Totals	185,420	54,660	240,080	4,411,656	474,655	4,886,311
AIRPORTS AND AIRMAYS	9,763	1,654	11,417	394,330	29,268	423,598
CONSERVATION	: !		•	į		•
Land and Water Conservation Other Conservation	51.627	2,060	2,527 51,627	36,897 5,933	4,317	41;214 5 <b>,939</b>
Totals	52,094	2,060	54,154	42,830	7.18,41	47,147
SANTTATION	5,554	6,603	12,157	43,964	668 <sup>6</sup> 8 <sup>4</sup>	92,863
OTHER OPERATIONS DIV. PROJECTS	.135,919	46,749	182,668	1,278,283	,308,188	1,586,471
County Totals	1,830,108	627,368	2,457,476	18,885,440	3,084,343 (Cor	21,969,783 (Continued)



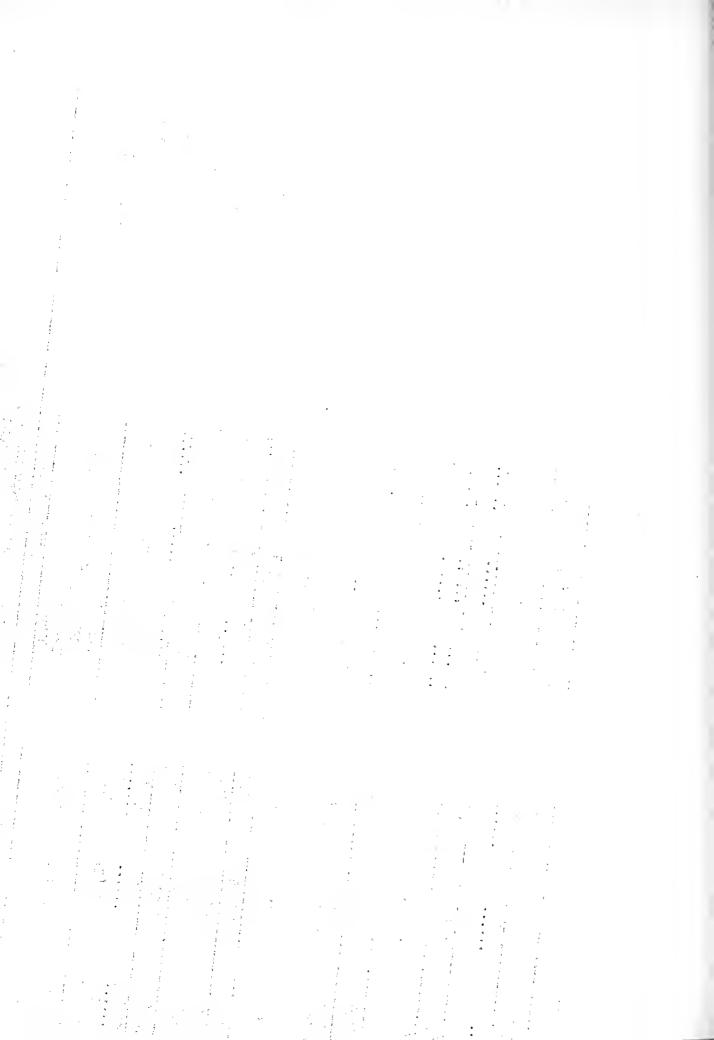
TYPES AND COST OF PROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN MARYLAND (Accumulative as of June 30, 1940)

	County Totals	OTHER OREDATIONS	SANITATION	COMSERVATION Land and Water Conservation	Totals	PUBLIC UTILITIES Water Purification and Supply Sawage Collection and Disposal	RECREATIONAL PACILITIES, EXCEPT BLOGS.	Totals	PUBLIC BUIIDIIGS Educational Buildings Other Buildings	Totals	HIGHMYS Secondary Reads and Feeders Streets and Alleys Other Highways, Raads, and Streets	Type of Project	
	26,674	• • • • • • • • • • • • • • • • • • • •	6,278	652	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	.6,675	6,675	13,269	13,269	Fedoral	C
	15,322	• • • • • •	8,014	• • •	•	• • • •	•	1,139	1,139	6,169	6,169	Sponsor	CALVERT COUNTY
	42,196	••••	14,292	652	• • • • •		•	7,814	418.77	19,438	.19,4,38	and Sponsor	Y Total Federal
	201,295	3,786	13,658	16,242	7,204	25411 4,793	65,116	58,253	56;175 12,078	27,036	1,5977 22,059	Federal	۵.
	107,251	1,529	18,241		10,221	3,347	21,825	17,691	36,311 9,380	7,744	,414 7,330	Sponsor	CAROLINE COUNTY
(Continued)	308,546	5,315	31,699	16,242	17,125	10;758 6,667	36,941	115,944	94,486 21,458	94,780	5;391 29,389	and Sponsor	Y Total Federal

TYPES AND COST OF PROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN MARYLAND (Accumulative as of June 30, 1940)

		OHIR OPERATIONS		CONSERVATION Land and Other Con		PUBLIC UTILITIES Water Furific Sewage Collec	RECREATION		PUBLIC BUILDINGS Educational B Other Buildin		Street Other	HIGHWARS	J+3	
	County Totals	RATIONS	Totals	SERVATION Land Tater Conservation Other Conservation	Totals	LIC UTILITIES Water Furification and Supply Sewage Collection and Disposal	RECREATIONAL ENCILITIES, EXCEPT BLDGS.	Totals	Educational Buildings Other Buildings	Totals	Streets and Alleys Streets and Alleys Other Highways, Roads, and Streets		Type of Project	
	193,853	530	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5,820	1,314	22,047	29,166	29,166	136,290	36,841	90.11.0	Federal	CAFROI _
	56,705	120	•	40 0 1 40 0 1 40 0 1 19 0 1 (b 0 1 40 0 1	1,464	1,464	6,113	9,525	9,525	39,483	20,769	10,771,	Sponsor	CARROIL COUNTY
	250,558	650		10 0 1 10 0 1 10 0 1 10 0 1 10 0 1	7,284	1,314	28,160	38,691	38,691	175,773	57,610	7.7 6.7 6.2	and Sponsor	Total -
											•			
	194,418	•	2,222	2,072	101,958	18;997 52,961	29,205	17,328	11,761	43,705	11,053	3 7 7	Federal	CE)CI
, , , , , , , , , , , , , , , , , , ,	112,814,	. •	2,529	2,529	67,103	6;620 60,483	6,739	16,261	15,897 . 364	20,182	9,182	77.000	Sponsor	CECIL COUNTY
	307,232	•	4,751	4,601	169,061	25,617 143,444	35,944	33,589	27;658 5 <b>,</b> 931	63,887	20,235	13.650	sponsor and Sponsor	Total

(Continued)



## TYPES AND COST OF FROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN MARYLAND (Accumulative as of June 30, 1940)

Co.		SANITATION		Other Conservation	Land and Water Conservation	CONSERVATION		Other Utilities	Sewage Collection and Disposal	PHRITCHTHES		Other Buildings	PUBLIC BUILDINGS "			dary Roads and	HTGHWAYS		Type of Project		
County Totals			Totals	<b>:</b>	rvation	•	Totals	4	nd Disposal		Totals			Totals	i i	Feeders					
109,006	- 9	6:197	•	• • • •	• • • • • • • • • • • • • • • • • • • •		22,614	,	22,614		398	868	,	79,327	20,572	58,755			Federal		CI
64,819	3	5,700			• • •		11,849	** 9 * * *	11;349		320	320		46,950	14,173	32;777			Sponsor		CHARLES COUNTY
173,825		11.897	;*		6 · · · · · · · · · · · · · · · · · · ·		34,463	,	34,463		1,188	1,188	i i	126,277	34,745	91;532		Sponsor	Federal	Total	Α
189,822		•	86,734	29,546	57,188		58,195	1,439	56,756		10,586	1,574	0.019	34,307	10,195	24,112			Federal		DORCHESTER COUNTY
68 <b>,</b> 863		•	13,521	4,090	9,431		25,876	T6 /	25,785		5,121	596	ニスクル	24,345	4,217	20,128			Sponsor		ER COUNTY
258,685			100,255	33,636	66;619		84,071	1,530	82;541	4	15,707	2,170	12/527	58,652	14,412	44,240	: .	Sponsor	Federal and	Total	

### TYPES AND COST OF PROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN HARMAID (Accumulative as of June 30, 1940)

County Totals	ENGINEERING SURVEYS	Totals SANTATTON	CONSERVATION Land and Water Conservation Other Conservation	Totals	PUBLIC UTILITIES Vater Furification and Supply Sewage Collection and Disposal Other Utilities	RECREATIONAL FACILITIES, EXCEPT BLDGS.	PUBLIC BUILDINGS: Other Buildings	Secondary Roads and Foeders Streets and Alleys Other Highways, Roads, and Streets Other Highways, Roads, and Streets	Types of Project	
1,382,175		36,812	4,271 34,541	589,485	70 ;681 518,569	95,132	33,851	308 3023 1393261 723555 723555	Federal	μŢ
469,078		190 06	6,504	213,184	26;991 186,124 69	19,951	13,402	59;677 43;571 43;571	Sponsor	FREDERICK COUNTY
1,851,253	the gent	47,3%	4;271 43,125	802,669	97,672 704,693 304	115,083	£52,74	487;700 189;009 116,126 792,835	Total Federal and Sponsor	TIME
1,219,579	80,000	305,043 55 790	297,564 7,479	20,075	2;857 .17,208	17,701	1,723	719,920	Federal	
1,27,719	19,865	216,510	215;412 1,098	2,223	, 975 1, 248	6,279	89	171,586	Sponsor	CARREIT COUNTY
1,647,298	99,385	521,553	512;976 8,577	22,296	3,842 18,456	23,980	1,791	894,506 22,816	Total Federal and Sponsor	ALE

(Continued)

TYPES AND COST OF PROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN MARYLAND (Accumulative as of June 30, 1940)

(Continue d)		Berger and a special problem of the special sp				
93,11,2	22,568	70,574	511,599 1,355,321	511,599	842,722	County Totals
•	•	• • •	57.4,232	134,696	439,536	OTHER OPERATIONS
4,9436	1,064	3,372	44,536	16,879	27,657	Totals
4,436	1,064	3,372	30;241 14,295	10;002 6,877	20;239 7,41¢	PUBLIC UTILITIES Water Purification and Supply Sewage Collection and Disposel
•	0 0 0 0 0	•	33 <b>,</b> 669	14,237	19,432	RECREATIONAL PACILITIES, EXCEPT BLDGS.
26,758	5 <b>,</b> 385	21,373	85,835	5,103	76,732	Totals
11,469 15,289	35274 2 <b>5</b> 1111	8;195 13,178	85,635	9,103	76,732	PUBLIC EUILDINGS Educational Buildings Other Buildings
61,948	15,119	45,829	617,049	336,684	.280,365	Totals
.17,278 4,780 39,890	9;803 529 5,787	7,475 4,251 34,103	124,5972 337,410 15,619 139,048	.61;714. 192;931 7;517 74,492	63;228 144,479 8:102 64,556	Primary Roads  Secondary Roads and Fooders  Streets and Alleys  Other Highways, Roads, and Streets
Federal and Sponsor	Sponsor	Federal	Federal and Sponsor	Sponsor	Federal	Type of Project
ry Total .	ногило соллг		Total	HARFORD COUNTY		

TYPES AND COST OF PROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN NAMELAND (Accumulative as of June 30, 1940)

County Totals	Totals	PUBLIC UTILITIES Whter Purification and Supply Sewage Collection and Disposal	RECREATIONAL FACILITIES, EXCEPT BLDGS.	Totals	PUBLIC BUILDINGS Educational Buildings Other Buildings	Totals	HIGHWAYS Secondary Roads and Peeders Streets and Alleys Other Highways, Roads, and Streets	Type of Froject	
62,538	8,609		• • •	25,861	9;085 16,776	27,988	10,093 11,245 10,645	Federal	-
79,668	9,148		•	42,535	4,335 38,200	27,985	8;740 14;844 4,401	Sponsor	YTVUÓÓ TMEN
775,206	17,637		•	68,396	135420 54,976	55,973	15;386 26;093 14,494	Total Fedoral and Sponsor	
76,096	15,842	5;105 10,727	25,092	7,012	6,729 ,313	21,536	15,072	Foderal	<u> 197</u>
25,907	5,414 5,065	4,43,4	5,910	3,550	3,418 ,132	5,968	2,552	Sponsor	HOHTGOLERY COUNTY
102,003	21,256 11,599	5,675 15,501	31,002	10,592	10,147	27.74	18,624	Federal and Sponsor	

(Continued)

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TYPES AND COST OF PROJECTS SPONSORED BY THE YORK PROJECTS ADMINISTRATION IN MARYLAND (Accumulative as of June 30, 1940)

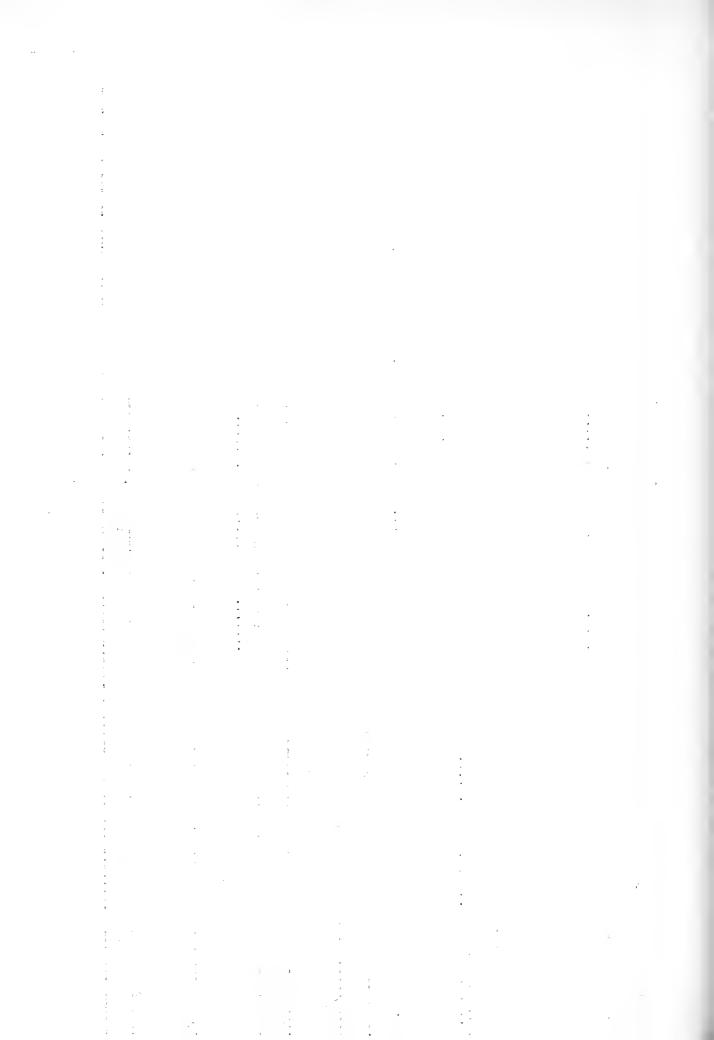
County Totals	SANITATION OTHER OPERATIONS	PUBLIC UTILITIES Water Furification and Supply Sewage Collection and Disposal Other Utilities Totals	RECREATIONAL FACILITIES, EXCEPT BLDGS.	FUBLIC BUILDINGS Fducational Büldings Other Buildings Totals	HIGHWAYS  Primary Roads  Secondary Roads and Fooders  Streets and Alleys  Other Highways, Roads, and Streets	Type of Project
535,178	. 996 29,743	95733 275074 1,511 38,518	3,721	143,192 134,679 319,003	57;847 4;396 80,949	Fodoral
246,765	33,652	3;501 14;665 1,159 19,625	1,065	69,802 75;997 46,221 122,218	17,176 185 52,441	PRINCE GEORGE Sponsor
, 781,943	1,399 63,400	13,734 41,739 2,670 58,143	4,786	212,994 260;121 181,100 441,221	75;023 4;581 133,390	COUNTY Total Federal and Spensor
135,653	2,597	3,408	2,930	62,546 60,204 -3,968 64,172	65054 465886 45893 45713	Federal
) 119 <b>,</b> 130	•	4.72 	395	21,665 94,717 74,5 95,462	35147 145505 25304 15909	QUEEN AMHE COUNTY Sponsor
254,783	2,597	1,228	3,325	84,411 154,921 4,713 159,634	9;201 61;391 7;197 6;622	MY Total Federal and Sponsor

(Continued)

TYPES AND COST OF PROJECTS SPOJECTED BY THE WORK PROJECTS ADMINISTRATION IN MARYLAND (Accumulative as of June 30, 1940)

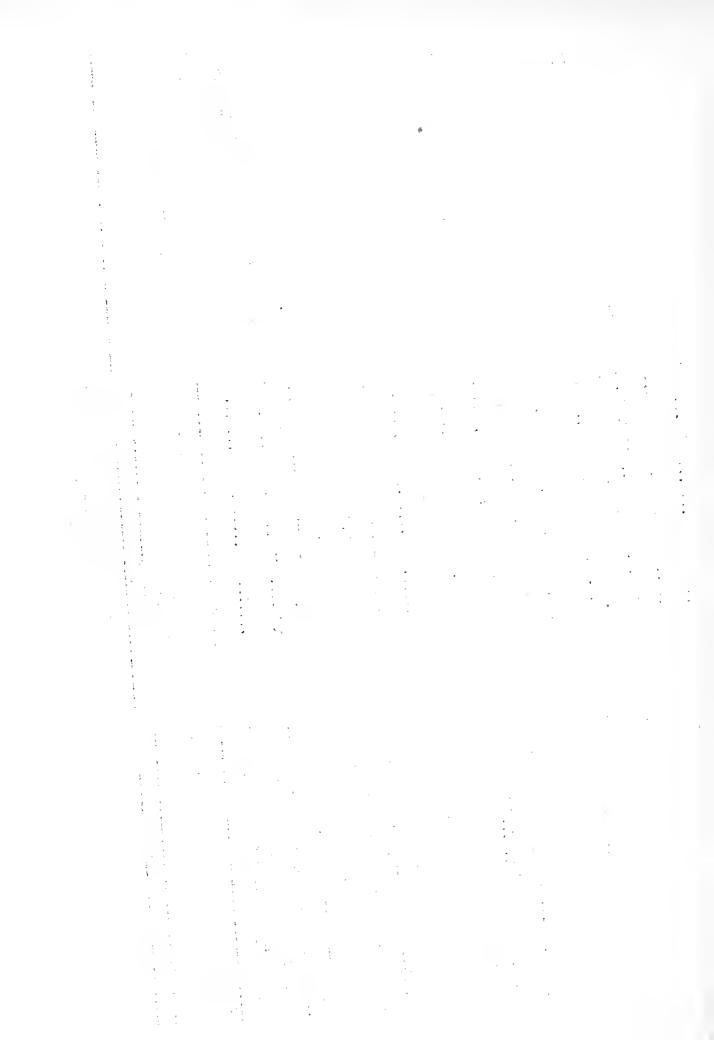
	County Totals	OTHIR OPINATIONS	SAHITATION	Other Conservation	Totals	PUBLIC UTILITIES Water Purification and Supply Sewage Collection and Disposal	RECREATIONAL FACILITIES, EXCEPT BIDGS.	Totals	PUBLIC BUILDINGS  Educational Buildings Other Buildings	Totals	HIGHTAYS Secondary Roads and Feeders Streets and Alleys Other Highways, Roads, and Streets	Type of Project	
	100,257	•	€,215	734	4,1,125	41,125	•	21,505	11,516 2,989	28,678		Federal	ST
	49,504	•	8,177	151	17,001	17,001	•	19,236	12;825 _6,411	4,939	1,212	Sponsor	MRY'S COUNTY
	149,761	•	16,392	, 885 ,	58,126	58,126	•	40,741	24,5341 16,400	33,617	.27,587 6,030	Total Federal and Sponsor	1 1
	266,315	2,192	27,841	469461	3,431	3,431	4,,420	103,244	97,240	120,718	73;129 29;058 18,531	Federal	
6	168 <b>,5</b> 30	739	27,103	5,716	6,14,7	7,41,6	1,358	98,618	98 <b>,</b> 493 125	28,849	9;298 11;510 8,0/1	Sponsor	SOLERSIT COUNTY
	434,645	2,931	54,944	,281°01	9,578	9,578	5,778	201,861	195,733	щ9,567	82;427 40;568 26,572	Tot al Federal and Sponsor	1 1

(Continued)



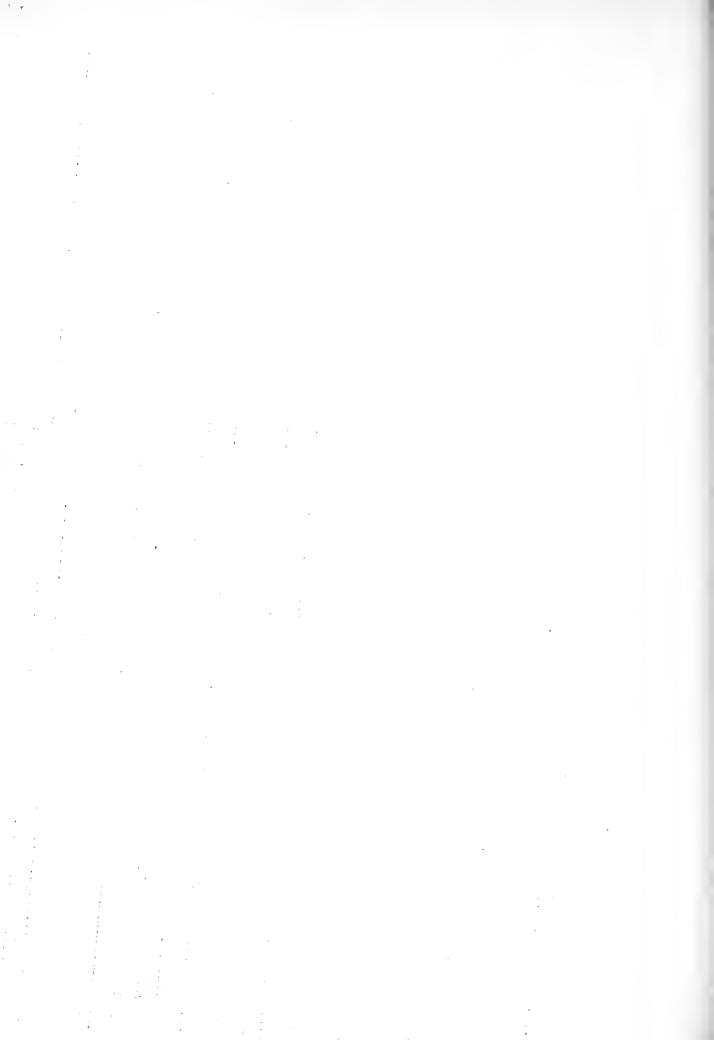
## TYPES AND COST OF PROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN LYMYTAID (Accumulative as of June 30, 1940)

	County Totals	OTHER OPERATIONS	SAMITATION	Totals	Land and Water Conservation Other Conservation	CONSERVATIOM	AIRPORTS AND AIRMYS	Totals	Other Utilities	Water Purification and Supply Sewage Collection and Disposal	PUBLIC UTILITIES	RECREATIONAL FACILITIES, EXCEPT BLUGS.	Totals	Other Buildings	Educational Duildings	DIED TO BUTT DIES	Other Highways and Roads, Streets	Streets and Alleys		Types of Project			
	36,924	• • • • •	10	•		•	•	6,352	• • • •	6.000		•	28,131	5,676	22,455	2,441		2;44I	1 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Federal	1		TA COMMISSION OF STATE OF STAT
	12,625					•		2,356	• • • • •	3,356	•	•	6,817		5;817	2,452		2,452		Sponsor	:	TALBOT COUNTY	1
	49,549					•	•	9,708	• • • •	9,708	•	•	34,948	5,676	29;272	4,893	• • • • • • • • • • • • • • • • • • • •	4.893		and Sponsor	Fedoral		Colar Colar Colar
	3,098,434	32,611	35 <b>,</b> 459	24,499	8 <b>,</b> 836 15 <b>,</b> 663		135,276	312,008	1,605	58 <b>;</b> 069 252 <b>;</b> 134		193,138	629,985	579,559	50;426	1,735,458	, 21%, 215	726,006 726,006	7 005:979	Federal			
	794,948	3,294	21,972	3,524	3,524	:	30,235	126,500	• • • • •	.86;591 .86;501		43,340	150,527	138,064	12,463	067,67,077	71,37U	105,664	250:71:2	Sponsor		THUMON NOT CHILDRY	
(Centinued)	3,893,382	35,905	60 <sub>9</sub> 431	28,023	8;236 19,127	. ;	165,511	436,308	1,805	97 <b>,</b> 868 338 <b>,</b> 635	`	241,478	780,512	717,623	625339	477664767	310,000	356,264	1_3/:6:661	and Sponsor	Federal	COUNTY	



## TIPES AND COST OF PROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN LARKEAND (Accumulative as of June 30, 1940)

		VICOLICO COUNTY	COUNTY - Total"		WORCESTER COUNTY	1 1
Type of Project	Federal	Sponsor	roceros Sponsor	Foderal	Sponsor	an d Sport or
HIGHAYS				, , , , ,	o: 7 : 6.01	107
Secondary Rands and Feeders Streets and Alleys	109 <b>;</b> 037 90 <b>;</b> 583	24,637 71,877	133,674	118;710 4,338	76,894 7,049	195;604 11;387
Other mignays, nords and otreets	019-44	013164	120001	AT1 649	±0,507	, Col.)
Potels	260,761	145,990	1,06,751	147,758	100,152	247,910
Educational Buildings Other Buildings	19;011	6 <b>5</b> 692 9 <b>3</b> 235	25;703 26;959	34 <b>;</b> 495 24 <b>,</b> 772	33,856 22,372	68;351 47;114
Totals	36,735	15,927	52,662	59,267	56,228	115,495
RECREATIONAL FACILITIES EXCEPT BLDGS.	485,68	19,260	116,244	14,868	8,611	53,479
PUBLIC UTILITIES						
Water Purification and Supply Sewage Collection and Disposal	153,440 153,440	101,248	32 <b>;</b> 059 234 <b>,</b> 688	2;271 11,138	1,5944 6,248	4,521.5 17,386
CONSTRUMENT ON TOWARD	143,399	123,348	266,747	13,409	€,192	21,601
Lend and Water Conservation	115,038	10;878 878;01	125,5916	.16,765	921	.17,686
Other Conservation	770,077	10 000 0F	720 025	17 7/n	027	79 P.F.
SANITATION	24,274	25,583	49,857	4,962	+04 e4	9,366
OTHER OPERCE TOWS	(34, <b>°</b> 11	3,239	14,728			•
County Totals	692,359	345 , 555	345 ,555 1,037 ,914	267,029	178,508	465,537
					(0,	(Continued)



TYPES AND COST OF PROJECTS SPONSORED BY THE WORK PROJECTS ADMINISTRATION IN HERYLAND (Accumulative as of June 30, 1940)

County Totals  Grand Total for State	OTHER OPELLY IONS	ON onservation	SAW	HIGHWAYS Other Highways, Roads, and Streets PUBLIC BUILDINGS	Type of Project
36,110,885	6,636	9,754	2,296 3,100	371,294	Federal
152,385 9,66 0,861	1,001		• · • • • • • • • • • • • • • • • • • •	139,727	Sponsor
s 416,313 152,385 568,698 36,110,885 9,66 0,861 45,771,746	7,637	9,754	00 I &	511,021	Grand Total Federal and Sponsor
.,	•				



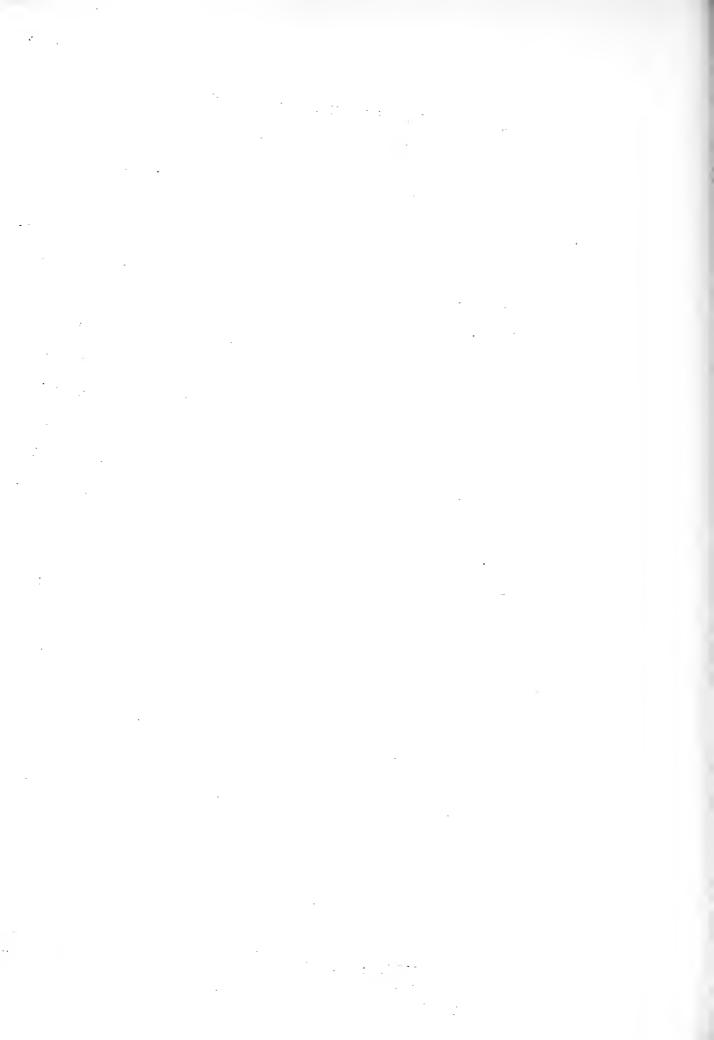
## FEDERAL WORKS ADMINISTRATION

The enlarged public works program of the Federal government was begun with the enactment of the National Industrial Recovery Act of 1933, as a result of the large amount of unemployment prevalent throughout the country, particularly in the construction industry and its many allied fields.

During the first half of 1933, virtually no new construction had been undertaken by private organizations. Although the government had increased its public works program, the total volume of contracts in the United States for the first six menths of 1933 was only 14% of that in the corresponding period of 1932. This low volume of construction was the culmination of five years of drastic curtailments in new construction. People employed in the building trades, and related industries found themselves in a market which could realize no profit in the use of their various skills. At this time, the comparative level of construction was lower than for any other major industry in the United States. In the first half of 1933, factories producing durable goods employed only 44% as many people as they had in 1929, lumbor mills but 45% of their 1929 force, cement mills 44% and steel mills 54% for the same year.

The original act, which created the Federal Energency Administration of Public Works\*, provided a total appropriation of \$3,300,000,000 to be allocated for the construction of various kinds of public works and public relief projects. Later legislation augmented those funds

<sup>\*</sup> Created Juno 1953; functions and personnel transferred to Federal Works Agency as the Public Yorks Administration by order of Reorganization Plan No. 1, effective July 1, 1939.



and extended the life of the Public Works Administration to June 30, 1941.

The Public Works program which was begun in 1933 was undertaken in three major categories: (1) projects conducted directly by agencies of the Federal government, identified as Federal projects; (2) projects known as non-Federal projects and undertaken by State and local authorities or other non-Federal bodies in cooperation with the Federal government; and (3) loans to industry on a commercial basis for such purposes as the development and improvement of railroad facilities.

State and local authorities which participated in the non-Federal public works program, provided for the greater portion of the project cost as the Public Works Administration was limited in its grants to 30% of the total cost of labor and materials. Later, the maximum grant was raised to 45% of the total project cost. The State or local spensoring agency financed directly or by loans from the P.W.A. the remaining 70% or 55%, respectively.

All public works were required to have specific social and economic value, and the construction of which was purported to relieve unemployment. Classes of non-Federal projects preferred for grants by the P.W.A. included waterworks, sewer projects, sewage disposal projects, municipal power plants, highways, bridges, tunnels, public schools, and hospitals.

Six hundred public works projects were aided by the Public Works Administration in Maryland, entailing a total expenditure of \$125,388,453. The Federal program provided for 458 projects with allotments totalling \$35,795,562, and the non-Federal program provided for 142 projects with a total estimated cost of \$89,592,811.

### Federal Program

Under the Federal public works program, as differentiated from the non-Federal program, buildings of various kinds constituted the largest

classification of projects to receive Federal allotments by the Public Works Administration in Maryland. One hundred and minety two of these projects included post offices, educational buildings, and others, the allotments totalling \$16,280,375. Allotments for aviation aids amounted to \$6,704,013.

The Public Roads Administration of the Federal Works Agency, received allotments from the Public Works Administration which were used in cooperation with the state highway departments for the construction and improvement of roads and highways. More than 1,689,250 man-hours of work on state highways and roads were provided through these means. (see chapter on Public Roads Administration)

The Department of Agriculture spent approximately \$3,264,380 for repairs and improvements to the agricultural facilities at the Belts-ville Research Center. The War Department has similarly provided improvements and facilities at the Aberdeen Proving Grounds through the expenditure of \$2,948,512. The Navy Department provided improvements at Annapolis through the expenditure of \$1,799,057 of F.W.A. funds. The Coast Guard of the Treasury Department provided repairs to a number of cutters at Curtis Bay from allotments totalling \$1,248,216.

The Procurement Division of the Treasury Department (Bureau of Buildings) spent \$100,455 for the construction of a new post office at Chestertown; \$53,821 for the construction of a quarantine station in Baltimore; \$349,926 for a structure at College Park to house a mining experiment for research work in mineral technology and \$63,427 for a post office at Easton.

### Non-Federal Program

Outstanding among the non-Federal P.W.A. programs in Maryland is the construction of two bridges which, it is estimated, cost \$9,762,450.

• · · · · · · · · · · · ·

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The Susquehanna Bridge, 5,074 feet long with a 46 foot roadway and a side-walk two and a half feet wide on each side, was completed at an estimated cost of \$4,535,850. The Potomac Bridge, 9,620 feet in length with a main span clearance of 135 feet above mean highwater, was completed at an estimated cost of \$5,226,600.

A P. W. A. grant for municipal improvements in Baltimore City in the sum of \$9,258,937 made possible the completion of the municipal airport, an additional wing to the art museum, a new Eastern High School building, additional to other public school buildings and three highway bridges in the city. It also aided in paving, widening and extending streets and made possible improvements to the City 's water supply and sewerage systems. This multiple unit project, it is estimated, will cost in excess of \$21,046,996 when completed.

The P. W. A., through leans and grants, financed thirty projects for the construction of and improvement to other sewerage systems throughout the State at an estimated cost of \$8,301,954. This includes a grant of \$452,295 for construction of a complete sewerage system at Frederick, Maryland estimated to cost \$1,027,432.

Forty-one educational projects costing \$15,295,530 were constructed with the aid of P. W. A. leans totaling \$305,250 and grants of \$5,936,363. This group includes the construction of a high school building at cumberland, containg twenty-six classrooms. A grant of \$247,716 was made for this project, which was estimated to cost \$896,771.

Employment benefits derived from the above allotments are shown in the attached summary giving the man-hours expended in the construction of this huge State program from its inception to July 1, 1939. This site employment was spread generally throughout the State, although the allotments for Baltimore City provided relief for the relatively larger proportion of unemployed there. Site employment reached a peak in August 1934, when 12,537 men were provided employment through the expenditure of \$2,240,144.

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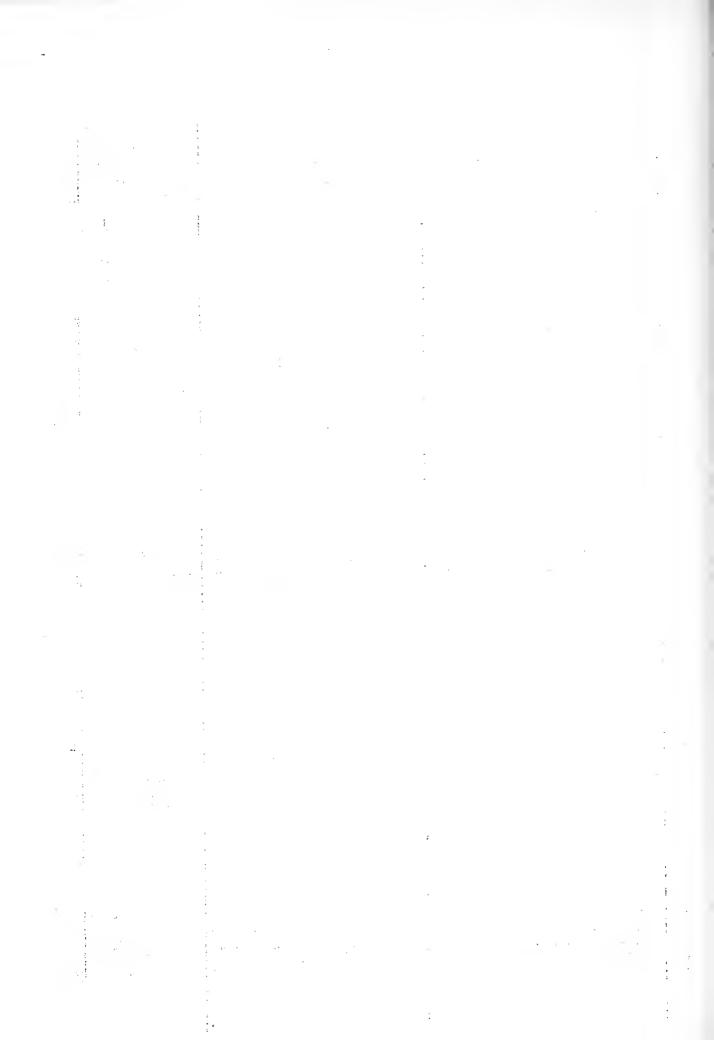
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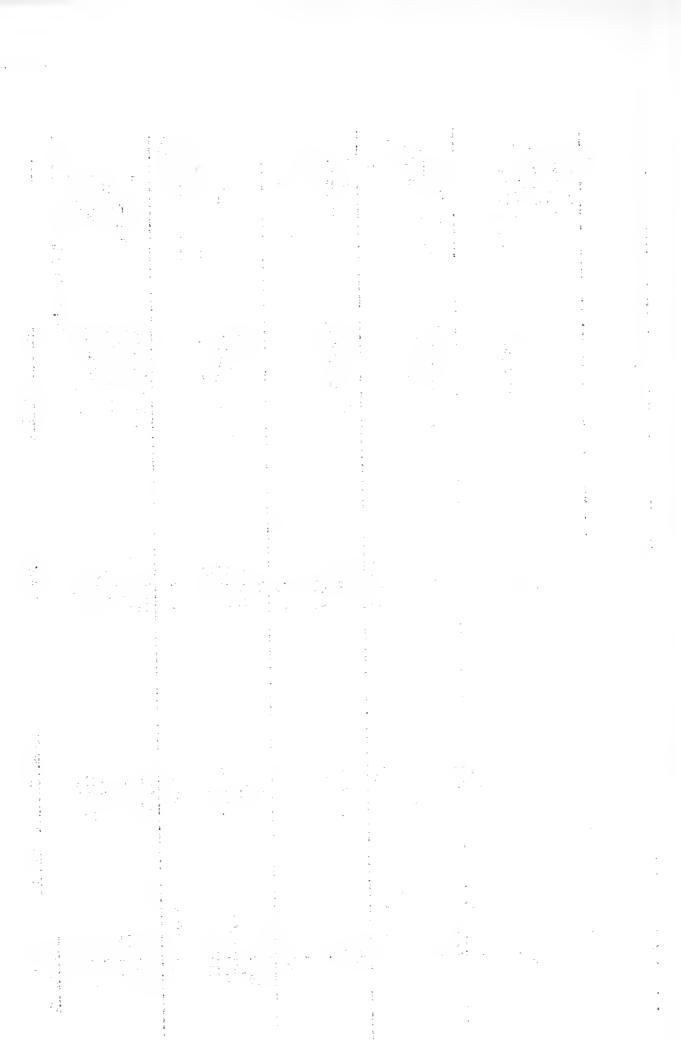
# PUBLIC WORKS ADMINISTRATION NON FEDERAL PROJECTS IN MARYLAND

Total	Total  BALFINGE COUNTY Owings Mills Owings Mills Catonsville Catonsville Pikesville Woodensburg Chase County-Wide "	AME ARUIDEL COUNTY Amapolis Crownsville Crownsville Annapolis Clen Burnie Shipley Tydings-on-Eay County-Wide "	Counties ALLEGAMY COUNTY Cumberland—Frostburg Cumberland Cumberland Frostburg Cumberland Frostburg Cumberland Cumberland
	Dormitory Dormitory Hospital Addition Infirmary School School Schools Schools Waterworks Severage Waterworks Severage	Sewers Hospital Addition Haterworks Improvement Record Building Sewers Fire Department Fulkhead Bulkhead Sanitary Sewers Schools Soil Erosion Schools	Type of Project  Type of Project  Reschools Schools Sewers Waterworks Waterworks
\$1,31 <i>4</i> ,100	\$ 754,005 162,000 162,000 20,250 79:494 28;014 56;560 44:590 28;297 502,895 250,000	\$1,016,097 \$210;457 56,098 73,400 60;252 68;817 13;711 12;273 10;832 97;088 59;577 157,500	as of January 3, 1940)  Grant  \$ 582,951 247,716 135,988 24,598 24,598 16,744
\$1,781,451	\$1,486,269  \$795,902  1795,101  1773,341  25,164  97,162  35,367  69,131  114,094  34,586  614,649  312,754	\$1,801,985 \$706,522 100,635 19,936 152,528 45,208 10,760 19,495 23,483 120,568 716,349 126,378	Sponsor's Contribution \$ 712,497 \$ 712,497 649,055 340,376 68,654 10,938 20,465
\$ 3,095,55I	\$ 2,240,274 \$ 133,902 361,101 287,341 145,414 176,656 63,581 158,683 1,117,544 552,754	\$ 2,818,082 \$ 916,979 156,733 27,336 212,780 114,025 30,471 31,768 44,315 217,656 133,926 354,285	Total Cost Of Project  9,295,448 \$ 1,295,771 476,364 93,252 19,038 37,209

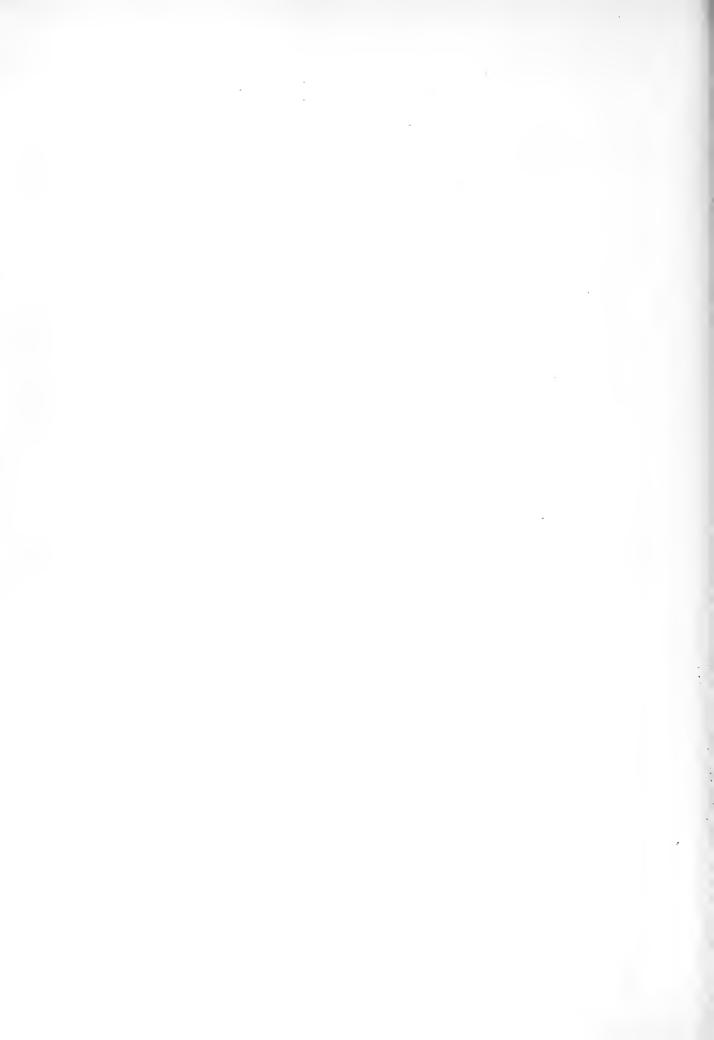


Total  DORCHESTER COUNTY  Cambridge  Cambridge  Vienna  H urlock  Secretary  Cambridge	Totel CHARLES COUNTY''' 'Charles County	Total CECIL COUNTY EIkton Elkton Che sapeake City County-Mide	CARROLL COUNTY Vostminster Sykesville Henryville Sykesville Sykesville Gounty-Wide	Total	CAROLIME COUNTY Hillsboro-Denton Federalsburg Greensboro	Total	CALVITT COUNTY Chesapeake Beach Chesapeake Beach	Count ie s
Disposal Plant Disposal Plant Hospital Waterworks, Sewerage Sewerage Waterworks Municipal Improvements	ighway, Bridge	C ourthouse, Jail High School Waterworks Schools	Disposal Plant Dormitory Hospital Addition Hospital Waterworks Schools		School Addition School		Bulkhead	Type of Project
\$ 2,351,970 \$ 54;300 49;305 72;450 16;074 6;256 17;306	\$ 437,930 \$ 2,351,970	\$ 536,948 \$ 156,782 81,000 27,476 170,672	\$ 63,439 35,608 78,210 153,104 21,786 184,801	813 <b>,</b> 001	1	\$ 58 <b>,</b>	\$ 24, 34,	Grant
51,300 49,305 72,450 72,450 16,074 6,256 17,306	930 970	94.8 76.2 47.6 67.2	635439 355608 785210 7853104 215786 845801	SIS	78,042 22,776	58 <b>,</b> 596	24, 305 34,291	10-
\$\$ \$\$ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(A)	£3: 50:	-00-	:0=	<del>16</del> %	-(.)=	<b>€</b> }:	Sponær¹s
\$ 2,874,630 \$ 192,084 -60,262 101,687 23,000 47,879 16,417 21,783	585 <b>,</b> 892 874 <b>,</b> 630	841,913 - 194;068 147;295 35;929 208,600	211;311 89;018 95;590 192;343 27;015 226;636	125,176	96;536 28,640	72,318	29,706 42,612	or's Centribution
€00 €00 V1	\$.5°	€0: €0:	*C==	€>	<del>\$</del> \$	毛ひ	:O:=	ion
5,225,600 246;384 109;567 174;137 31;440 63;953 22;673 39,089	1,023,822 5,226,600	1,378,861 352,850 228,29 63,405 379,272	274,750 124,626 173,800 345,447 4,8,801 4,11,437	225,994	91,4,578 51,416	130,914	0.41	Total Cost Of Project

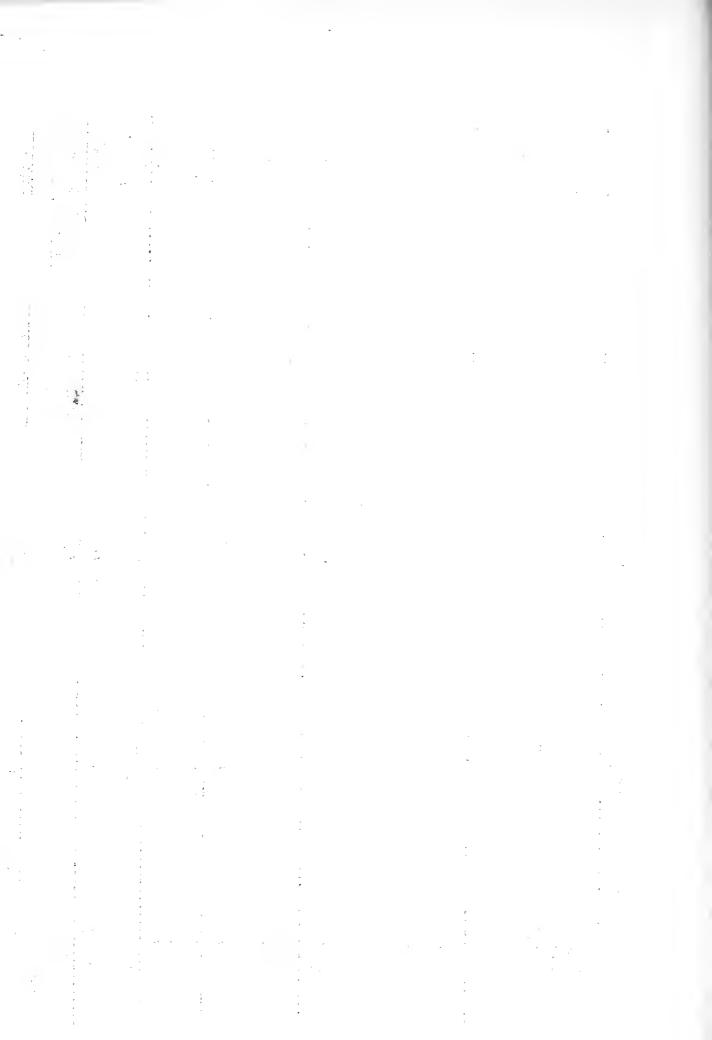
Total	KENT COUNTY Chestertown	Total	HOWARD COUNTY  Ellicott City  Ellicott City  Elkridge  Scaggsville  County-Wide	Total	Total  HARFORD COUNTY  Belair  Havre de Grace  County-Wide	Total GARRETT COUNTY Grantsville Grantsville Oakland	Total FREDERICK COUMTY Point of Rocks County-Wide ""	DORGESTER COUNTY (co Cambridge Cambridge Cambridge County-Wide	Counties
*	Disposal Plant		Courthouse Fire Department High School Schools		Disposel Plant Kunicipal Improvements Highway, School	School Addition Waterworks School Addition	Schools Disposal Plant Fire Department Schools	(cont'd)  High School  Library  High School  Schools  Numicipal Buildings	Type of Project
\$ 30,630	\$ 30 <sub>3</sub> 630	© 205,860	\$ 19;102 17;123 33;750 25;635 110;250	\$ 163 <b>,</b> 093	\$ 65,385 \$ 42,3354 \$ 42,3354 39,739 81,000	\$ 725,113 \$ 36;567 10;326 38,492	\$ 624,517 \$ 11,413 452,295 16,155 245,250	\$ 773454 93000 -213000 1803912 523020	Grant
\$ 37,438	\$ 37,438	\$ 263,764	\$ 23,991 21,064 50,232 31,679 136,598	\$ 274,610	\$ 121,163 \$ 115,648 116,570 110,392	\$ 939,352 \$ 46,442 27,675 .47,046	\$ 966,348 \$ 14,696 602,021 22,885 299,750	\$ 97,384 11,000 99,597 221,115 73,740	Sponsor's Contribution
\$ 68 <b>,</b> 068	890,89. \$	\$ 469,624	\$ 43,093 38,167 83,982 57,514 246,848	\$ 437,703	\$ 206, 48 \$ 158,002 88,309 191,392	\$1,664,465 , \$ 83,009 \$3,001 85,538	\$1,590,865 \$7,26;109 1,054;31 39;040 545,000	\$ 174,838 -20,000 180,997 1,02,027 1,125,760	ion Total Cost Of Project



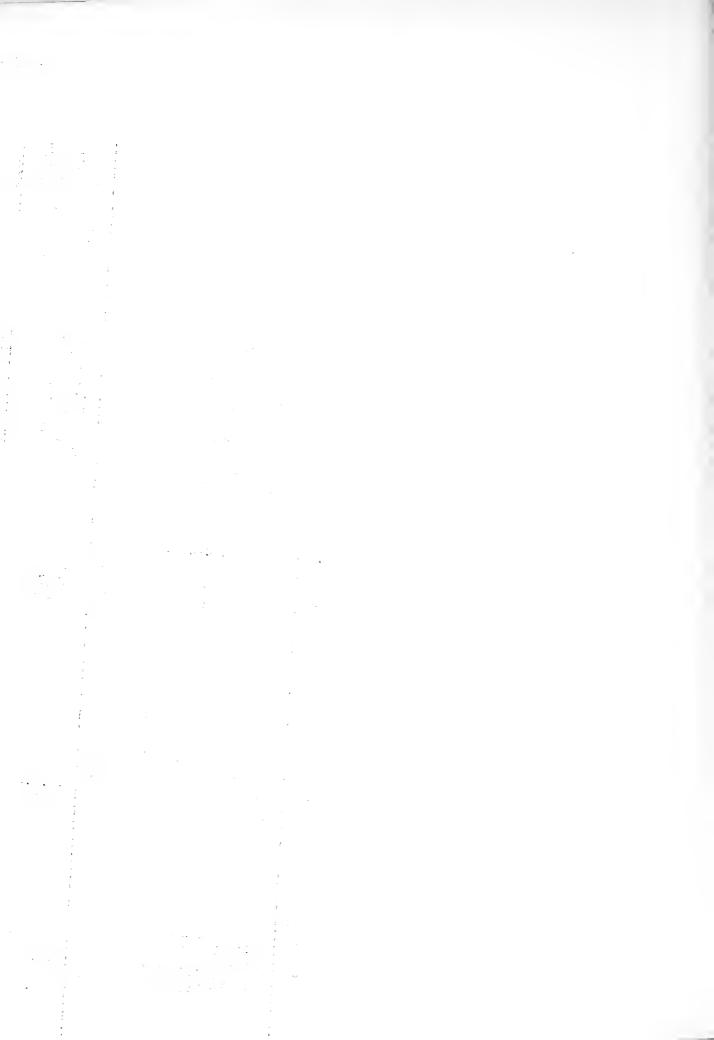
Total		Borië Hyattsville Hyattsville Upper Tarlboro County-Wide	12 12 13 16 C	Hyattsville Colmar Manor Hyattsville Riverdale Cheverly	Total PRINCE GEORGE'S COUNTY	Sondy Springs Chevy Chase County-Wide	MONTGOMERY COUNTY Nociville Clen Echo Clen Echo Rockvillo-Dama Scus- Silver Springs-	Counties
	Sanitary Sowerage Schools School Improvements School Improvements	Municipal Improvement Sewer Thunicipal Improvement Waterworks Schools	University Building University Building University Building Unicipal Improvements School Additions Liunicipal Improvement Incinerator	Streets Streets Street Improvement Street Improvement Street Improvement		Paving Schools Schools Naterworks Improvement	Disposal Plant Fire Department Structs Schools	Type of Project
\$ 2,819,160	526,500 102,750 100,000 52,000	2530 16556 157550 157750 155072	1563962 173911 1315144 145710 245750	1 086,01 26,224 26,224 26,224 26,224 26,224		~23;410 189;510 160;600 67,658	\$ 26;473 6;558 6;200 191,800	Grant
\$ 4,020,704	643,500 394,035 126,103 66,900	3,690 20,234 221,649 19,316 237,575	160,71.1 17,976 21,632 160,71.1 17,976	\$ 30,607 32,604 61,132 60,44,2 56,050 5,52,901 1 3,72360	1,497	28;730 246;979 546;815 :82,694	\$ 325357 165912 165324 526,534	Sponsor's Contribution
\$ 6,839,864	1,170;800 496; <b>7</b> 85 226;103 116,900	6520 3795149 3795149 35,066	5465547 393603 2913655 2913655 323688	20,707 806,101 806,101 103,867 103,867 825,601 825,601	\$2,168,954	523,140 4363,469 7063,615 3150,352	\$ 58,830 23,470 22,524 718,334	Total Cost



WICOMICO COUNTY Salisbury Salisbury Shaiptown County—Mide	Total	Clear Springs Willliamsport Hagarstown Hagarstown County-Wide	VASHINGTON COUNTY Hagerstown Hagerstown	Totel	TALBOT COUNTY Trappo Faston Easton	Total	SOMERSET COUNTY Crisfi <b>c</b> ld	Total	ST. MRY'S COUNTY Helon	Total	QUEEN ANDET COUNTY	
Street Improvement Waterworks, Sowerage Waterworks School Addition Courthouse	:	Waterworks Sanitary Severs Storm Severs Municipal Improvement Schools	City Hall Disposal Plant		Water mains Disposal Plant Electric Distributions		Sanitary Sewers		Selicol Improvements		Disposal Plant	Type of Froject
#C7=	:0:		<del>4</del> 02	€.}÷	40%	€:	<b>€</b> 0:	:50:	±C?÷	<b>:</b> 0>	<b>=</b> €07:	
41,657 30,000 20,076 301,596 76,950	454,249	946 061 8118 9118 1935 1935 1935 1935 1935	1865750	89,381	1,046 50,625 37,710	56,561	56,581	14,489	14,1459	9,725	9,725	Grant
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· •0>	€≫	t	€≎	€.}=	-0%	€≎	<b>-</b> 00-	£);÷	<b>-1</b> 09	€3:	•60•	S
50;914 107;459 25;108 369;655 123;384	603,376	193607 51 <b>3</b> 780 92 <b>3</b> 006 7 <b>3</b> 477 160 <b>3</b> 047	220;250	110,510	2,54,5 61,675	72,051	72,051	17,710	17,710	24,271	24,271	Sponsor's Con
47.34	₹3+		<b>1</b> 79	£3:	*	<b>a</b> Ç∵ÿ≟	<b>:</b> 00:	4 <u>0</u> 15=	<b>40</b> 34	€00-	Q)s	Contribut ion
92,571 137,459 45,184 671,253 200,334	1,057,525	26,602 70,596 160,457 13,595 290,295	1,15,000	199,691	3;591 112;500 83;600	126,632	128,632	32,199	32 <b>,</b> 199	33,996	33,996	Total Cost Of Project
	Street Improvement \$ 41,657 \$ 50,914 \$ 107,459 Waterworks, Sewerage 20,000 25,108 School Addition 301,596 369,655 Courthouse 76,950 123,364	0.00UNIY  5 treet Improvement \$ 41,657  5 inty  6 503,376  5 1,657  6 50,914  6 50,914  7 interworks \$ 20,000  7 interworks \$ 301,596  5 School Addition \$ 301,596  Courthouse \$ 76,950  123,364	Materworks   13,007   13,007   13,007   13,007   13,007   13,007   13,007   13,007   13,005   13,005   13,005   13,005   14,77   130,948   160,047   160,0	### City Hall	### City Hell	Water mains	### Weter mains	Sanitary Sowers \$ 56,581 \$ 72,051 \$    Color   Minter   Color   Color	\$ 14,439 \$ 17,710 \$  Sanitary Sowers \$ 56,581 \$ 72,051 \$  Unition mains \$ 56,581 \$ 72,051 \$  Unitor Distributions \$ 77,710 \$ 51,075 \$  Unitor Distributions \$ 1,05,770 \$ 226,250 \$  Unitor Sowers \$ 6,595 \$ 14,209 \$  Unitor Sowers \$ 1,05,770 \$ 19,607 \$  Unitor Mains \$ 1,05,710 \$  Unitor Mains \$ 50,000 \$ 25,100 \$  School Addition \$ 76,950 \$ 123,334 \$  Unitor Mains \$ 20,076 \$ 30,355 \$  Courthouse \$ 76,950 \$ 123,334	IMBY'S COUNTY	MRNIT'S COUNTY	### Process   Plant   \$ 9,725   \$ 24,271   \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

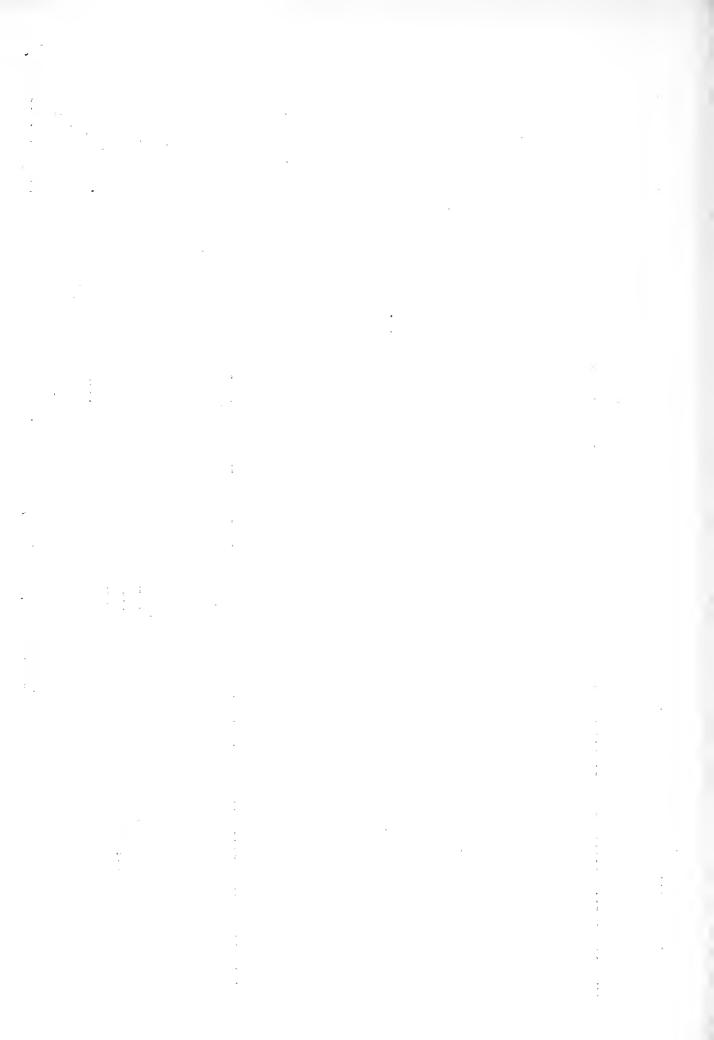


		Total	Pocomoke City	Counties
Total	Highway Improvement Highway Improvement Highway Bridgo Prison Improvement Penal Institutions Waterworks, Sewerage	MULTIPLE	Disposal Flant Fire Department Hunicipal Building	Type of Project
\$ 5,333, <b>3</b> 23	\$ 1;590;000 1;000;000 2;041;132 409;091 69;000 180;000 44;100	WITE GUTTES AND THE STATE OF 84 635		Grent
\$ 9,311,512	\$ 450435063 15255531 3,0445299 5005000 1755079 2395809 2395809	STATE OF LARYLAND		Sponsor's Contribution
§ 14,644,835	\$ 5;633;063 2;255;631 5,085;431 909;091 244;079 419;809 97,531	2 417,477		Total Cost Of Project





"Loan from Foderal Government of BALTIMORE CHY Total (all projects)	*Hospital Library		Prettyboy Dam Guard Rail Water Mains in Advance of Improved Streets	Four School Buildings Repairs to Roads and Strects Repairs to Sewerage System Fire Unsine House	Sewage Sludge Tanks—Back River Treatment Works Ashburton Pumping Station Baltimore City Hospitals—T.B.	BALTIMORE CHY  Type of Construction	Totals	Sewage Pisposur Fiance Curtis Bay	Treatment Works	ment-Balto. City Hospital Art Mascum Addition Colgate Street Bridge 29th Street Bridge Hunicipal Airport	Hilton Street Bridge Laundry Building and Equip-	Type of Project
\$ -646,266 f \$ 175,000; Grants \$ 9,905,803	101,954	32 <b>,</b> 000 75 <b>,</b> 449	2;124 12,392	157 <b>;5</b> 00 11;767 10:680	0 60,000 39,000 135,000		\$ 9,258,937	780,937	2,203,523	1425,188 1425,188 1603,322 1,622,562	\$ 558,554	Grant s
-5 1,696,275  Total Project Cost: \$ 185,680.  Snorsor's Contribution \$13,484,334	124,755	187,391 187,391	5,756 30,165	444,080 29,517 28,065 25,552	3 171;688 119,383 448.553		\$11,788,059	316,480	103,807	11,7,997  777,388	£.:	Sponsor's Contribution
\$ 2,343,141 <u>Total Cost of Project</u> \$23,390,137	226,709	113;170 262;840	7;880 42,557	601,580 41,284 37,065 36,232	* 231,888 158,383 583,553		\$21 <b>,</b> 046 <b>,</b> 996	1,097,1,17	2,307,330	\$2,608,579 \$2,603,222 \$31,631,222 \$81,631,222	558,554	Total Cost Of Project



# PUBLIC LICING ADMINISTRATION NON-PEDIENAL PROJECTS BY COUNTIES STATE OF IMPLIANCE.

	A STITE		
Counties	imount of Grants	Sponsor's Contribution	Total Cost of Froject
Allogany -	\$ 1,016;097	\$ I;col;985	\$ 258165082
Anne Arundal		1,466,269	2,210,274
Beltimore	1,314,100	1,781;451	3,095;551
Calvert	58;596	72;318	130;914
Caroline	100,818	1.25 <b>;</b> 1.76	225;991,
Carroll	536,948	842,913	1;376;861
Cocil	.437,930	· 585 <b>;</b> 892	1,023,822
Charles	2,351,970	2,874,530	5;226;600
Dorchester	624,517	966,348	1,590,865
Frederick	725,113	939,352	1,064,1,65
Garrett	(C)	121,163	2065548
Hariord	100;000 100;000	2/15/17/2 2/1/2010	1, 10 - 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Kont	000000	27.7.5 35.7.7.6 35.7.7.6	450,000 450,000
Liontgomery	671,609	1,497,345	251685954
Prince George's	2,819;160	4,020,704	6 <b>,</b> 639;664
Quéen Anne's	2,705	24,271	33,996
St. Mary's	14,489	17,710	32,199
Somerset	56,501	723051	120°000
Telbot	89,381	110,510	1,99,891
Washington	454,249	(C)	1,057,625
Worcester	96,635	,120,824	, 219 ¢59
Total Counties	\$13,089,172	\$19 <b>,</b> 315 <b>,</b> 620	<i>532,404,792</i>
Roltimoro City Total (all			
Projects)	9,905,803	13,484,534	23,390,137
Multiple Counties and the	•		
	5,333,323	9,311,512	14,644,835
Grand Total	\28,328,298*	<i>\$42,</i> 111 <i>,4</i> 66	\$70,439,764

<sup>\*328,375,412</sup> as of July 1, 1940; County, City and Eultiple Counties and the State of Exyland breakdown not available.

SUMBLING OF PAULA, HOLL-REDERAL ALLOCATIONS FOR THE STATE OF LARKEAUD: BY TYPE OF PROJECT

AS OF JULY 1, 1939

	Railroad Construction and Equipment Miscellaneous	Bridges and Viaducts	Educational Courthouses and City Halls Hospitals Others	Sewor Systems Water Systems Others	Dowers, Materworks, Power and Other Facilities:	Streets and Mighways
142	(i) I	N	10 11 14 14 14 1	00 ± 00		No. of Projects
321,124,045	16,799,895		305,250 17,000 175,000	94,6 <b>;</b> 300 139 <b>,</b> 000		<u>Loan</u> 5 2,699,600
728,377,551 28,373,412*	9.456.317	4,393,102	5,936,363 530 <b>,7</b> 59 821,563 844,255	3,122;737 267;478 62,450	,	Allotment Grant (2,942,517
%754,764,64 49,501,496	16,799,895 201,091,895	4,393,102	6,241,613 547,759 996,563 844,255	4,069;037 4,06;47 <b>3</b> 62,460		Total \$ 5,642,117
\$9,592,891 89,591,718*	24,759,895 24,759,895	10,312,031	15;295;530 1;232;106 2;442;075 2;189;466	8,30 <b>1</b> ,954 77 <b>7,</b> 178 135,600		Eşti mated Cost

<sup>\*</sup> Amounts as of July 1, 1940; Authority: Public Horks Administration.

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### SUMMARY OF P.W.A. FEDERAL ALLOTMENTS

### FOR THE STATE OF MARYLAND

## BY TYPE OF PROJECT - JULY 1, 1939

Type	No. of Projects	
Street and Highways	93	\$ 3,702,115
Sewers, Waterworks, Power, Other Facilities	44	2,141,254
Building:		
Post Office and Administrative Educational Other	4 8 180	252,911 2,945,000 13,082,464
Flood Control, Water Power, Reclamation	2	7,872
Water Navigation Aids	14	511,574
Vessels	18	2,554,935
Ingineering Structures	3	11,765
Aviation	6	6,704,013
Improvements to Federal Land, Plant Pest and Disease Control and Other Miscellaneous		
Trojects	86	3,881,659
	458	\$35 <b>,7</b> 95 <b>,</b> 562
TOTAL	464 <b>*</b>	35,821,381*

<sup>\*</sup>Figures as of July 1, 1940; Source: Public Works Administration; breakdown not available for period July 1, 1939 to July 1, 1940.

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# SULDING OF THE P.II.A. PROGRAIT IN LANGINGE

# FOR THE FAILOD JUNE 1933-JULY 1, 1940

	Total		Allotment		Total	Reported
	Esti nated Cost	Total	Loan	Grant	Man-Hours Worked	Project Costs
Hon-Federal Projects	\$89,591,718	24, 197, 457	\$21,124,045	\$28,373,412	30,151,989	\$67 <b>,</b> 994 <b>,,</b> 706
Federal Projects	35,621,381	35,621,361		35,821,381	12,370,184	28,293,462
Total	\$125 <b>,</b> 413 <b>,</b> 099	\$65,318,638	\$21 <b>,</b> 124 <b>,</b> 045*	(64 <b>,</b> 194 <b>,</b> 793	.42,522,173**	~96,288,168***
* Includes railro	fott ası avot per	799,895 - constru	Includes railroad loan for \$16,799,895 - construction and equipment	<b>₽</b>		

\* 水水水

For period June 1933 to July 1, 1939; 1940 figures not available. Reported Project Costs represent the cost of materials in place (including the cost of labor performed) and miscellaneous cost for that portion of the work completed - for period June, 1933 to July 1, 1939; 1940 not available.



# F E D E R A L W O R K S A G E N C Y FEDERAL EMERGENCY RELIEF ADMINISTRATION

The need for more substantial financial aid to needy people necessitated the passage of the Federal Emergency Relief Act in May, 1933. This Act created the Federal Emergency Relief Administration\*. Through it funds were made available for grants to the states to assist in relieving the hardships and suffering caused by unemployment. These grants-in-aid were continued by subsequent Emergency Relief Acts of 1934, 1935, and 1936.

The Federal Energency Relief Act provided that its funds were to be allocated to the various state and local relief agencies in accordance with the following objectives: (1) to provide relief on a more adequate basis, (2) to encourage work projects for employable persons, and (3) to introduce some degree of diversification into the relief picture so as to insure the adequate care for special groups of persons whose problems require specialized treatment.

During this emergency relief period this Administration sponsored four special programs: (1) emergency program, (2) college student aid, (3) rural rehabilitation, and (4) transient programs. At the peak of the Federal Emergency Relief Program in March 1935, five and a half million resident families and single persons, representing approximately twenty-one million persons, received financial aid through work relief; approximately three million received direct relief only; and three hundred thousand were aided under the special programs.

The FERA failed objectively in that the projects were not sufficiently diversified to make full use of job experiences of workers and the money paid the workers was insufficient. To remedy these deficiencies, the

<sup>\*</sup>Created in May 1933.

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Civil Works Administration was created in November 1933 (see chapter on C.W.A.). Under this program, various types of projects were begun which utilized the past job experiences of the unemployed. Although the C.W.A. program was terminated in 1934, it provided valuable experience for the development of subsequent work programs.

During the years 1933, 1934, and 1935, total obligations incurred from Federal, State, and local funds under the FERA Program in the United States amounted to \$4,119,004,631. This included relief extended to cases, costs of special programs and administration; and beginning with April 1934, cost of materials, non-relief supervison, and equipment on emergency relief projects. Approximately 71% of this sum was from Federal funds.

From January 1933 through December 1935, combined payrells for the United States aggregated \$1,229,699,107. The total cost of the Emergency work Relief Program, which began in 1934 after the cessation of the C.W.A., amounted to almost \$1,300,000,000. Of this total, 26% was allocated for highways, roads, and streets; 15% for public buildings; 11% for parks and recreational facilities; 9% for sewerage systems; 21% for white-collar and service projects; and 18% for conservation, airports, sanitation and health, and commodity distribution.

Final FERA grants were liquidated by the end of 1935, and the Federal Works Program was initiated in the summer of 1935 to replace the Federal Emergency Relief Administration. The rural rehabilitation program of the FERA was transferred to the Ferm Security Administration (formerly the Resettlement Administration) in July 1935. The college student aid program was continued by the N.Y.A. Responsibility for direct relief was returned to the states, and other functions financed under the FERA were absorbed in the Work Program. (See W.F.A.)

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# FEDERAL WORKS AGENCY CIVIL WORKS ADMINISTRATION

People receiving aid through the Federal Emergency Relief
Administration were paid on a budgetary deficiency basis and the
projects were not sufficiently diversified to make full use of the
individual's past job experience. In an effort to remedy these defects to meet the critical unemployment situation during the winter
of 1933-1934, and to stimulate recovery through the medium of a large
volume of purchasing power in a short period, the Civil Works Administration\* was created by Executive Order as "a fundamental change in the
federal program to deal with unemployment aspects of the depression."

Objectively, this program was designed to transfer all able-bodied persons from the relief rolls to this "work program." The transfer of persons to Civil Works rolls began on November 16, 1933, and increased until the peak employment was reached in the middle of January 1934. It is estimated that 4,263,644 people were employed nationally under this program during the week ending January 18, 1934. Relief workers represented about one half of this total.

Two of the requisites of Civil Works projects which were undertaken by local public agencies, were that they be socially and economically desirable and of such a character that they could be undertaken
quickly. Speed and action were the watchwords laid down by the Civil
Works Administration. Wage rates were fixed in accordance with prevailing local rates, but at not less than the minima established by the
Civil Works Administration.

<sup>\*</sup> Created on November 8, 1933; discontinued in April 1934.

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From November 1933 to April 1934, approximately \$8,897,000 was spent by the Federal Government on projects in the State of Maryland. A total of 49,452 men and women were given employment throughout this program of which 48,347 or 97.8% were men, and 1,105 or 2.2% were women. Of the \$8,897,000 expended, approximately one-third was spent by the counties, one-third in Baltimore City, and one-third on Federal and state-wide projects.

Under this program, many types of construction and improvements were conducted, such as city streets, roads, public land improvement, public buildings and equipment, schools and grounds, playgrounds, water supplies, sanitation, drainage systems, shore protection and flood control, research, and airports. There is hardly a community in the State that did not receive benefits from one or more projects made possible by this Administration.

In its program to initiate and carry through this work as quickly as possible, the following disbursements were made from November 1933 to March 1934, inclusive:

Month	<u>Materials</u>	Pay Rolls
November December January. February. March.	\$	\$ 165,934.92 1,189,459.85 2,331,374.29 1,824,825.65 1,711,843.30
TOTALS	\$615.813.86	\$7,223,438,01

In this short period of time, the Federal government issued 601,086 in United States pay checks, or an average of 31,636 weekly, for the nineteen weeks that this program was underway. The average check to workers on Civil Works Administration projects amounted to \$12.01.

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# FEDERAL WORKS AGENCY PUBLIC BUILDINGS ADMINISTRATION

The Public Buildings Administration\*, by authority granted to it under the Reorganization Plan of April 3, 1939, is responsible for the administrative, technical and clerical functions incident to the design, construction, maintenance and repair of Federal buildings.

The Office of the Fiscal Manager of this Administration prepares the necessary data and estimates for construction and maintenance, and submits this data to the Bureau of Budget. This Administration also may acquire land upon which public buildings are to be constructed and acts in cooperation with the Post Office Department in the selection of suitable sites for public buildings outside of the District of Columbia.

This agency expended during 1933 to 1938 inclusive, a total of \$4,446,556 for construction of its public buildings in Maryland.

This money was spent annually as follows:

1933		\$ 1,129,201	1936	 \$ 360,953
1934	-	982,595	1937	 601,637
1935	_	<b>75</b> 0,845	1938	 611,325

A complete list of the individual projects constructed by this administration in Maryland is not available. However, a few of the better known projects and their cost are as follows:

(1)	New post office at Chestertown	\$ 100,455
(2)	Quarantine station at Baltimore	53,821
(3)	Mining experiment station at College Park for research work in mineral technology	349,926
(4)	New post office at Easton	63,427

<sup>\*</sup> Organized in June 1933 in the Procurement Division of the Department of Treasury; consolidated with Branch of Buildings Management of the National Park Service which formed the new Public Buildings Administration by authority of Reorganization Plan 1, offective July 1, 1939.

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# FEDERAL WORKS AGENCY UNITED STATES HOUSING AUTHORITY

Under the United States Housing Authority\*, three communities in Maryland, namely Beltimore, Annapolis and Frederick, have benefited from subsidies and loans made available by this Federal agency.

Baltimore City has already initiated seven slum clearance projects, estimated to cost approximately \$20,760,000, in as many different areas throughout the city.

In addition to these, another slum clearance project has been approved by the United States Housing Authority and two others are contemplated. When all of these projects are complete, the loan authorization from the United States Housing Authority will, in all probability, exceed \$28,000,000. It is estimated that the annual Federal subsidies for the seven projects now under construction amount to approximately \$622,800. Since each municipality must contribute in cash or value an amount equal to 20% of the Federal subsidy, \$124,560 will therefore be added by Beltimore City, giving a combined annual subsidy of \$747,360. Approval of the three remaining projects would probably boost combined annual subsidies, both Federal and local, in excess of \$1,000,000.

The first seven projects alone will provide nearly 4,000 new dwelling units, providing for the rehabilitation of a like number of families or approximately 17,000 persons. It is hoped that the rehabilitation of these families will be completed by 1942.

<sup>\*</sup> Created September 21, 1937 under general supervision of the Secretary of the Department of the Interior; Executive Order #7732 of October 27, 1937 transferred to the Authority all housing and slum clearance projects of the Foderal Emergency Administration of Public Works and the slum clearance activities of the Public Works Administration; under authority of Reorganization Plan No. 1, transferred from the Department of the Interior to the Federal Works Agency, effective July 1, 1939.

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The following data concerns the seven projects now under construction and are presented to summarize several important features of the individual projects. While the number of dwelling units given are actual figures, the ultimate cost as well as subsidies are dependent upon final construction and incidental costs. These costs and subsidies cannot be definitely ascertained at this time and, therefore, the best estimates available are herewith presented:

Poe Hames: This project, now under construction, is on the site of one of the City's slum areas and adjacent to the City's largest business district. Intended for negro families, it will consist of 298 dwelling units and will house approximately 1,250 persons. The site, including cost of demolishing the original structures, is estimated to cost \$475,000. The total cost of this project when completed will reach approximately \$1,840,000 or an average cost of \$6,174 per dwelling unit. Based upon this completed construction cost, annual Federal subsidies are estimated at \$55,000 and municipal participation to the extent of \$11,000.

Perkins Homes: This site, also a former slum area, is in the Eastern section of the City. The cost of demolishing the original structures is estimated at \$1,024,000. This development, intended for white families, will consist of 688 dwelling units which will house approximately 3,000 persons. It is estimated that the total cost of the project when completed, will aggregate approximately \$4,207,000 or \$6,114 per dwelling unit. It is estimated that annual Federal subsidies will approximate \$126,210, whereas municipal participation will be to the extent of some \$25,200.

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Armistead Gardens: Intended for white families, this site was originally unoccupied, which explains the low site cost of \$160,000. This site is in the extreme Eastern end of the City and when the project is completed it will provide 700 dwelling units for approximately 3,300 inhabitants. The total estimated cost of this project is expected to reach \$2,362,000, or an average cost of \$3,374 per dwelling unit. It is estimated that Federal subsidies will approximate \$70,860 annually, with the City supplying approximately \$14,100 each year.

McCulloh Homes: The site for this project is one of a former slum area in the Central part of the City. Intended for negro families, the cost of demolishing the original structures is estimated at \$624,000. This project when completed will provide for 434 dwelling units to accomplete approximately 2,000 persons. The total estimated cost of this project when completed will be about \$2,364,000 or an average cost of \$5,447 per dwelling unit. It is estimated that the annual Federal subsidies will approximate \$70,920, as compared to the City's annual participation of approximately \$14,200.

Gilmor Homes: This site, in the West Central section of the City and originally a slum area, when improved, is intended to house negro families. The cost of demolishing the old structures in preparation for the new is estimated to cost \$844,000. When completed, this development will consist of 647 dwelling units to accommodate approximately 2,750 persons at a cost of \$3,592,000 or an average cost of \$5,552 per dwelling unit. It is estimated that annual Federal subsidies will approximate \$107,760, and the City will contribute approximately \$21,500.

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Douglass Homes: This project will replace a former slum area in the East Central section of the City and is intended for negro families. The cost of the site, including the domolition of the original buildings, is estimated at 5703,000. The completed development will consist of 393 dwelling units, housing approximately 1,700 persons. The total cost of this project is estimated to cost 52,367,000 or an average of \$6,023 per dwelling unit. It is estimated that annual Federal subsidies will approximate \$71,010, with the City participating annually to the extent of approximately \$14,200.

Latrobe Homes: This project will replace a former slum area in the Northeast Central section of the City and is intended for white families. The site, including the demolition of the original buildings, is estimated to cost \$1,128,000. The completed development will consist of 701 dwelling units, housing approximately 3,000 persons. The total cost of this project is estimated at \$4,028,000, or an average of \$5,746 per dwelling unit.

# FIDERAL WORKS AGENCY - UNITED STATES HOUSING AUTHORITY

PUNDS AVAILABLE TO LOCAL HOUSING AUTHORITIES OF THE STATE OF LIGHTAIN

1937 - 1940

						A CALL SECTION OF THE	t
230,000 0 14,654,000	<b>₹</b> .≱	230,000	£22	474,000	<:	13,950,000	Total Funds Available to Local Housing Authorities Jum 30, 1940
74,000	:00:	1		74,000	<b>*C</b> >=	did familia	(d) Local Authority "A" Bonds Sold to June 30, 1940
14,180,000	€.>	230,000	€೧⊧	na estado	<b>KO</b>	0 13,950,000	(c) Temporary Local Financing to June 30, 1940
4,00,000	<b>=</b> () (a	Erri era kwal		400,000	:CD:		Met Advances June 30, 1940
8,335,000		97,000		i .		8,238,000	(b) Less: Repayments by Local Housing Authorities
8,735,000	:03	97,000	<b>:</b>	000,000	±0.0±	\$ 8 <b>,</b> 238,000	Gross Advances
7,792,000		90,000		274,000		7,428,000	July 1, 1939 to June 30, 1940
543,000		7,000		126,000		000,000	July 1, 1930 to June 30, 1939
400,000	4534		ನ್ಯು		÷C.3+	000,004	Hov. 1, 1937 to June 30, 1938
TOTAL		FREDERICK	1 1	MIDMPOLIS		HULLINE	(a) Advances by the H S H I

Items (b), (c) and (d) were transactions which occurred only during the fiscal year ending June 30, 1940.

# DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE

Among the activities of the Bureau of Biological Survey, is included the "wildlife service" of the Federal government which includes all vertebrate wildlife. As part of the Bureau's activities, it conducts research, establishes and maintains refuges, regulates migratory bird hunting, administers Federal wildlife laws and cooperates with local and other governmental agencies in the control of injurious species.

To permetuate the habitat of wildlife, the Bureau establishes and maintains refuges for game and other species. In addition, the Bureau maintains stations for experiments in wildlife propagation and bird and animal research.

During the period of this report the Bureau of Biological Survey sponsored two projects in Maryland. These projects consisted of refuge buildings, roads, trails, wildlife habitat improvements, etc.

One of these projects was constructed at the Patuxent Wildlife Research Refuge located near Bowie in Prince George's County, at a total cost of \$760,484. Of this amount, the Public Works Administration contributed \$234,008; the Civilian Conservation Corps, \$27,478; and the Work Projects Administration, \$428,998. The other station was constructed at the Blackwater Migratory Bird Refuge, located near Cambridge in Dorchester County and was completed at a cost of \$103,337. Of this amount the P.W.A. contributed \$7,112; the W.P.A., \$28,991; and the C.C.C., \$67,224. These funds constitute emergency funds made available by the several agencies for development purposes

<sup>\*</sup> The Bureau of Fisheries, established in 1870 under the jurisdiction of the Department of Commerce, and the Bureau of Biological Survey, established in 1885 under the jurisdiction of the Department of Agriculture, was transferred to the Department of the Interior on July 1, 1939. Under the authority of the Reorganization Plan III on June 30, 1940, the work of the two bureaus was consolidated under the Fish and Wildlife Service.

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of the Bureau of Biological Survey. Unfortunately, an annual breakdown of these expenditures for these projects is not available.

### Beltsvillo Research Center - Patuxent Research Refuge

The various programs for the development of this area has greatly benefited wildlife. Experiments now in progress will determine under what conditions wildlife may be produced on wastelands now being retired from farm crops, and also on land devoted to agriculture and forestry. Farmers will be given demonstrations on improved methods of managing various species for food and cover conditions. Numerous species are being restored, including ruffed grouse, wild turkeys, and white-tailed deer. The Bobwhite quail is receiving special study. Opossums, squirrels, foxes, skunks, muskrats, and beaver are stocked on the refuge. Water fowl is being studied on Cash Lake, another refuge development. General farming practices of game bird and animal propagation, improving game farming techniques, and supplying game birds and animals for stocking the refuge at Beltsville, are to be included in the study.

In addition, a survey of diseases of wildlife is in progress.

Disease investigations are being made of wildlife in this area and also of fur animals in captivity. Studies will cover inter-relationship of diseases and parasites to nutrition and sanitation, and as a source of infection or infestation to human being and livestock.

Bird banding studies will show (1) migratory bird usage of the area, (2) the seasonal use of Cash Lake and Patuxent River, (3) dates of arrival, and (4) population of birds.

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# DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Maryland has maintained an established system of investigation of its surface water resources as well as facilities for stream flow recordings since 1894.

From the initial gaging station established on the North Branch of the Potomac River at Cumberland in June 1894, the State now has 36 gaging stations scattered within its borders.

In 1928, the War Department was authorized by an Act of Congress to allocate funds for the purpose of investigating and studying the major streams throughout the United States. Through this Federal Assistance, with the cooperation of the War Department and the United States Goological Survey\*, Maryland increased its number of gaging stations to 23 in 1930. By June 1940, this number was further increased to the present 36 stations. The latter increase was due primarily to the necessity of having available records of the amount of water to be taken care of in the preparation of plans for flood control projects.

It is interesting to note that through the United States Geological Survey, approximately 90% of the expanditures made for the establishment and maintenance of gaging stations in the 30 odd years through 1925 was with Federal funds. During this period, the State contributed loss than \$5,000 of the total of \$50,000 spent.

On page 82, expenditures are shown for the installation and maintenance of gaging stations on Maryland streams from 1924 to 1940, as contributed by the various governmental agencies. It will be noted

<sup>\*</sup> Gaging Stations.

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that in the absence of more accurate data, figures for some of the earlier years are estimated.

In 1927, the City of Baltimore initiated studies concerning possible sources of additional water supply for the city. Shortly thereafter, in 1928, Congress authorized the War Department, through its United States Engineers Office, to cooperate with municipal governments in their water problems. The State did not take advantage of this Act until 1931, although prior to that year some work had been done through the Upper Potomac River Board. Prior to and through 1930, cooperation by the Federal and state governments was on the basis of \$1.00 of Federal funds to be matched by \$2.00 of state funds. However, beginning with 1931, financial cooperation was put on a 50-50 basis.

In 1933, large amounts of relief funds were made available to the State. These funds, together with appropriations from the United States Engineers Office, were used to improve and repair existing gaging stations and for the construction of some new stations. Many stations were improved by the installation of wells and recording gages in modern reinforced concrete gagehouses. This improvement replaced the original staff gages which were read only once or twice a day. The reinforced concrete structure for the recording gage on the Maryland side of the Potomac River at Paw Paw, West Virginia, is the highest in the State. Other gage houses vary in height from about 25 feet over-all to 50 or 60 feet.

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Fiscal	No. of				FEDER	DERAL FUNDS					
year	gaging ste- tions	U.S. Geolo- gical Survey	U.S. Engi- neer Of- Fice-D.C.	P.W.A.	W.F.A.	C.W.A.	Na- tion- al Park Service	Total Fed. and Fer Cent of Total	Total State and Federal		
1924-25	6	75%						\$1,500 75%	\$ 2,000 100%		
1925-26	6	75%	and and			24,04	arra <del>Tira</del>	1,500 75%	2,000 100%		
1926-27	9	32%						1,600 32%	5,000 100%		
1927-28	9	* **						1,960	2,800		
1928-29	12	56%	14%					70% 5,780	100% 7,320		
1929-30	2l;	21%	58% 			~-		79%	100% 13,240		
1930-31	23	28%	3 <i>3</i> %				3% 	6,340	· 100% 9,750		
*	•	31%	31,%				3%	65% 11,830	100% 20,400		
1931-32	29	47%	7%				4%	58%	100%		
1932-33	30	46%	-				5%	8,830 51%	17,310 100%		
1933-34	30	16%		 425		 15%	1%	21,150 74%	28,580 100%		
1934-35	31	42%		17%	grind yang		2%	10,310	16,630 100%		
1935-36	27	41%		18%	 1%		2%	8,660 62%	13,970		
1936-37	28						~~ 1,%	24,000	30,380 100%		
1937-38	28	22%		12%	44%	Cod State	1,5	10,070	17,670		
1938-39	31.	48%			9%			57% 28,875	-100% 36,550		
1939-40	36	23%	26%	27%			3%	795	100% 20,590		
		45%	16%				25	63%	100%		

Totals 0167,050 0249,190

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ANNUAL EXPENDITURIS OF FUNDS FROM STATE AND FEDERAL SOURCES FOR CONSTRUCTION, OPERATION AND MAINTENANCE OF GAGING STATIONS IN THE STATE OF MARYLAND (1924-1940)

Fiscal	No. of				HARYLAND		
year	sta- tions	Geologi- cal sur- vey	Upper Potomac River Board	City of Balti- more	Washington Sub. San. District	City of Salis- bury	Total
1924-25	6	200		alerman, antika a tare p-aks angeneraler callera			\$ 500
1925 <b>–</b> 26	6	18%		man bridg	7%		25% 500
1926-27	9	18%	*****	-	7%		1 25% 3,400
	•	10%		55%	3%	pag 448	63% 340
1927-28	.9		and the	25%	5%		30%
1928-29	12			9%	12%		1,540
1929-30	24		235	11%	1%	15	6,565 36%
1930-31	23		11%	125	10%	25	3,410 35%
1931-32	29	28%	6,5	 45	3%	1,5	€,570 1,2%
<b>1932-</b> 33	30	32%	7%		45	15	8,480 49%
1933-34	30	12%	4%	5%	 4%	1%	7,439 - 126%
1934-35	31						6,320
1935-36	27	22%	7%	5% 	3%	1%	্রভর্ম 5,31.0
1936-37		1.8%	8%	6%	5%	15	- 1 33% 6,380
		12%	3%	3%	2%	1,5	215 7,600
1937-30		28%	55	5;°	3%	1,%	43%
1938-39	31	14%	 3%	2,5	1,5	1,5	7,675 - 21%
1939-40	36	24%	5%	455	3%	1%	7,620 37%

(1924-1940) Total for State of Maryland \$82,140

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# DEPLRIMENT OF THE INTERIOR

UNITED STATES GEOLOGICAL SURVEY (Topographic Survey)

The United States Geological Survey, through its Topographic Survey Division, conducted several topographic surveys and prepared and published maps pertaining to specific areas in the State of Maryland during 1927, 1928, 1934, 1935, 1936, 1937, 1939 and 1940.

The various phases of the Survey's work, which constituted revision surveys, resurveys, transit traverse surveys and spirit leveling surveys accounted for \$75,330 of federal expenditures.

TOPOGRAPHIC SURVEYS IN LARYLAND BY THE U.S. GEOLOGICAL SURVEY

Fiscal Year	Quadrangle or Project Name	Revision Surveys (Square Hiles)	Resurveys (Square Miles)	Transit Traverse (Linear Miles)	Spirit Leveling (Lincar Miles)	Cost
1927	Revision of Haryland, part of the District of C olumbia and vicinity map	50	~~			₿ 600
1928	Sere as 1927	193				1.297
1934	Prince Frederick, Upper Harlbore and Leonardtown	<b></b> i	184	267	243	24,434
1935	Sare as 1934	end pro-	226	one land		11,701
1.936	Leonardtown	end sping	160	72.	31	10,778
1937	Greenbelt and Vicinity	que line		143		2,787
1939	Elkton and Havre de Grace	 ( 381	****	nas tra		14,919
1940	Same as 1939	(				0,814
	TOTALS	624	570	461	274	\$ 75,330

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## NAVY DEPARTMENT

### BUREAU OF YARDS AND DOCKS

The Bureau of Yards and Docks\* of the Navy Department is authorized to design and construct all naval public works such as drydocks, marine railways, ship-ways, harbor works, quay walls, piers, wharves, ships, dredging, landings, floating and stationary cranes, power plants, coaling plants, heating, lighting, telephone, water, sewer and and railroad systems, roads, walks and grounds, bridges, radio towers and all buildings for whatever purpose they are needed by the Navy and the Marine Corps.

In general, the work performed by the Bureau is carried out by commissioned officers of the Corps of Civil Engineers of the United States Navy.

The expenditures made by this Bureau provided for improvements at the naval radio station at Annapolis and Carderock, Maryland, and totalled \$5,804,729 for the period 1929 to 1939, inclusive. The following tabulation indicates the work performed at each place:

<sup>\*</sup> The office of the Secretary of Navy was established by Act of Congress on April 30, 1798. The Act of August 31, 1842, created the Bureau of Navy Yards and Docks. The Act of July 5, 1862, established the Bureau of Yards and Docks.

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# AMNAPOLIS, MARYLAND

Fiscal Year	Work Item	Cost	Total
1929	Boiler House	\$ 54 <b>,</b> 636	\$ 54,636
1930	(1) Boiler House (2) Improvement of in→	38,320	
	terior illumination	49,525	87,845
1931	(1) Boiler House (2) Improvement of in-	44,872	
	terior illumination	144,229	189,101
1952	<ul><li>(1) Boiler House</li><li>(2) Improvement of in-</li></ul>	16,126	
	terior illumination	108,988	125,114
1933	<ul><li>(1) Boiler House</li><li>(2) Improvement of in-</li></ul>	2,935	
	terior illumination	7,123	10,058
1934	(1) Improvement of in- terior illumination	20,397	20,397
1935	None		
1936	(1) Additional facilities: buildings, accessories, and purchase of land	41,159	41,159
1937	(1) Additional facilities: buildings, accessories, and purchase of land	66,053	66,053
1938	<ul><li>(1) Improvement of interior illumination</li><li>(2) Additional facilities:</li></ul>	406,144	
	buildings, accessories, and purchase of land	351 <b>,</b> 343	757,487

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# ANNAPOLIS, MARYLAND, cont'd.

$\mathbf{F_{is}}$	scal Year	Work Item	Cost	Total
	1939	(1) Improvement of inte illumination (2) Additional faciliti buildings, access	41,275 os: orios,	
		and purchase of 1 (3) Laundry buildings	and 70,606 70,415	
		(4) Dispensary building		
		(5) Quarters for Offic	·	
		(6) Storeage Sheds	19,800	
		(7) Dormitory for hospi	tal	
		corpsmen	47,973	
		(8) Enlarged Chapel	<b>67,78</b> 4	
		(9) Quarters for operat	ors	
		radio station	27,642	" - 3-5
				\$ 1,103,888
CARDEROCK,	MARYLAND	1	otal for Annapolis	ę
	1936	Radio receiving station including building burchase of land		
				16,886
	1937	Same as 1936	155,755	155,755
	3.07.0	No. of the second second	2	
	1938	Naval Experimental Mode		
		Basin	1,100,352	1,100,352
	1939	Naval Experimental Mode		
		Basin	2,075,998	2,075,998
		ጥ <sub>ር</sub>	tal for Carderock	
		10		
		Grand Total 1	927 to 1939, inclusive	\$ 5,804,729

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### WAR DEPARTMENT

### CORPS OF ENGINEERS

By authority given to the Corps of Engineers\* by Congress, this agency is charged with the supervision of all Federal investigations and improvements of navigation, flood control and power development on rivers and harbors. These duties include the examination and survey of rivers and harbors, administration of laws for the protection of navigable waters, establishment of harbor lines and anchorage grounds, establishment of regulations for the navigation of waterways, approval of plans for bridges and dams, and issuance of permits for dredging, dumping or other related phases of work associated with navigable waterways.

Plans for the improvement of river and harbor facilities are investigated by the Board of Engineers for Rivers and Harbors, to which the Chief of Corps of Engineers refers recommendations and reports based upon surveys by the Corps of Engineers.

The most extensive work performed by this agency in Maryland during 1924 to 1940 had to do with the dredging of the Baltimore Harbor and Channels, and the Chesapeake and Delaware Canal. New work performed on the Baltimore Herbor and Channels during the fiscal years 1924, 1930, 1931, 1932, 1933 and 1934 amounted to \$2,474,062, while the maintenance cost for the same project for the fiscal years 1924 to 1940 inclusive (no maintenance expenditures during 1933) amounted to \$3,815,189.

New work on the Chesapeake and Delaware Canal performed during the fiscal years 1924 to 1939 inclusive totalled \$14,944,995, whereas the maintenance cost for this project amounted to \$7,001,439 for the fiscal years of 1927 to 1939 inclusive.

Work on river, harbor and flood control improvements within the State for the fiscal years 1924 to 1939 inclusive are summarized as follows:

<sup>\*</sup>Created by Act of Congress in August 1789.

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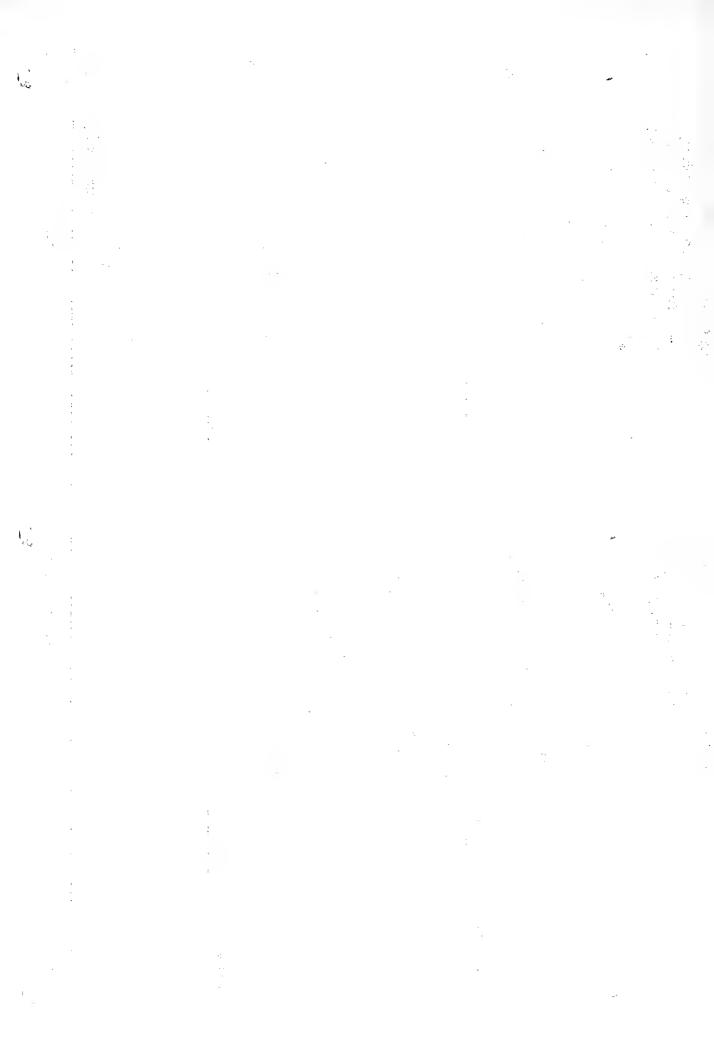
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# WAR DEPARTMENT - CORPS OF ENGINEERS

	1926	:		1925					1924	Fiscal Year
\$1,874,908	Chesapeake and Delaware Caml: Delaware and Haryland; on- largement of canal (1.874.908)	~2,534,235		Chesapeake and Delaware Canal: Delaware and Karyland; en- largement of canal \$2.531.235	, 2,013,523			Chesapoake and Delaware Canal: Delaware and Delaware Canal: Largement of canal All 962 796	Boltimore Marbor and Channels: Dredging channels and channels and anchorages	New Work
, 906	Beltimore Harbor and Channels: Dredging Channels and anchorages (202,433	225	Queenstown Herbor, Moryland: Dredging 10-foot channel in Chester River	Eclimore Harbor and Channels: Dredging channels and J477,035	523	Combridge Harbor: Dredging channels and turning basins (900	Claiboine Karbor: Dredging 12-foot channel: and jetty work \$7,404	Wheenstown Harbor, Miryland: Dredging 10-foot channel: in Chester River \$7,309	Baltimar e Harbor and Channels: Dredging channels and anchorages (5635,539)	Ihintenance
\$202,438	`	010-617-16			3651 <b>,</b> 152					
%2,077,346	· · ·	\$3,011,275			32,664,675					Total



		1929				1928			1927	o Fiscal
Checapoake and Delaware Canal: Delaware and Maryland; en- largement of canal \$\frac{1}{266,235}\$	Crisfield Harbor: Drodging 12-foot channel and two 7-foot channels	Cambridge Harbor: Dredging Chann cls and ' turning basins (20,276			Crisfield Harbor: Dredging 12-foot channel and two 7-foot channels (1	9477.5 COC 6 01178.8		Chesapëeke and Delawa Delaware and Marylla Largerent of canal	liew Work	
Chester River: Dredging 6-foot channel from Crumpton to Jones Landing J13,732	Claiborne Harbor: Dredging 12-foot elemed. ' and jetty work (11,306	Raltimore Harbor and Channels: Dredging Channels and anchorages	2152,537	Chesaposke and Delaware Conel:    Delaware and Maryland; on-   Largament of conel   (755,656	Potomue River Delow Washington: Dredging 24-foot elemnel from mouth of river to Washington	Baltimore Harbor and Channels: Drédging Channels end anchorages	7446,503	Chesapeake and Delaware Canal: Delaware and Laryland; th- largement of canal \$410,000	Baltimare Herbor and Channels: Dredging Channels and	l-lai nt-onan oo
			12,098,660				£636 <b>,</b> 479			
			21,251,197				\$1,00 <i>4</i> ,982			Total



(contid.)

Wicomico River:

North and South Frongs, (

Dredging at Salisbury and

Potomac River below Washington

Dredging 24-foot channel

from mouth of river to

∂19,550

Chusapeake and Delaware Canal:

I.b.shington

Delaware and Maryland; on= "... largework of canal "1,054,538

1,430,149 \$1,768,399

Baltimore Harbor and Channels: anchorages Droging Channels and 2407,625

Chester River: Orumpton to Jones Landing

Micomico River:

Dredging of Salisbury and in Morth and South Prongs

Broad Creek: Dredging 6-foot channel from Annonessox Hivor Pocomoko Sound to Little

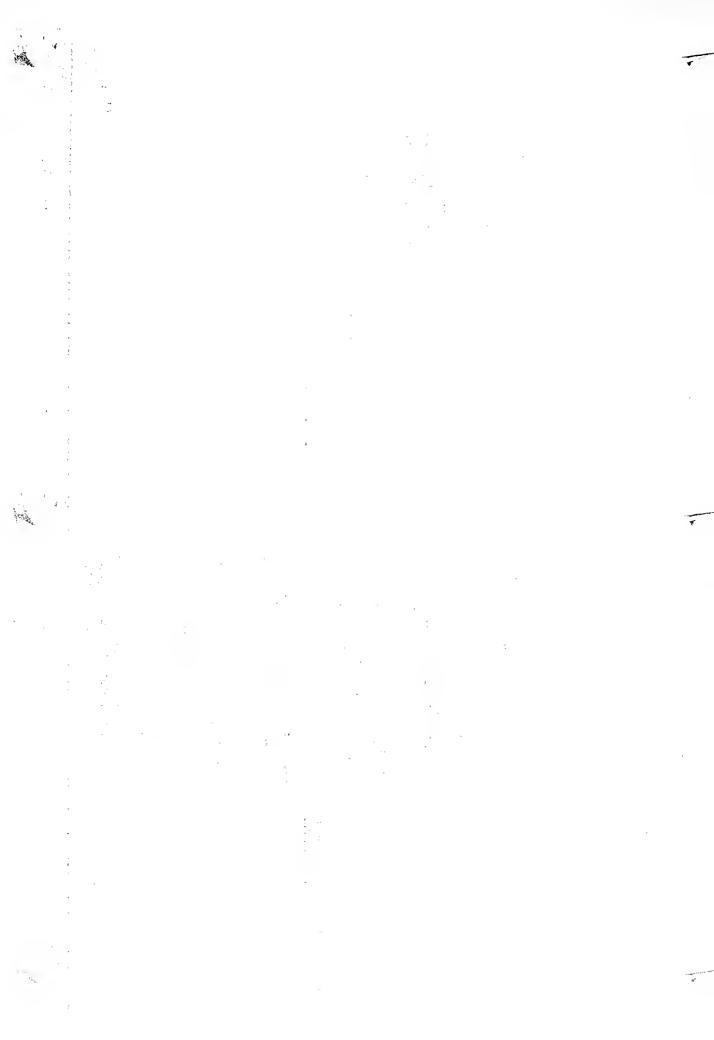
Potomice River below Whishington: Dredging 24-foot channel from mouth of river to lashington

Beltimore Harbor and Champels:

Crisfield Harbor: Drodging Channels and concharaces (296,541 anchorages

Dredging 12-foot channels ...

Chesapeake and Delaware Canal: largement of canal \$73,776 Doleware and Maryland; on-



(contid)

Baltimore Unrbor and Channels: anchomges Dredging channels and

1931

Claibonne Herbor: and jetty work Dredging 12-foot clannel 313,052

Elk and Little Elk Rivers: Elkton and 7-foot channel Dredging 7-foot claimel to in lower Little Elk River

Choptank River: Dredging in vicinity of

Hicomico Eiver: and in North and South Drodging at Salisbury

Twitch Cove and Big Thoroughfare Miver: Traversing Smith's Island Channel 4-miles long

Herring Bay and Rockhold Creek: Dredging, break-water con-Rockhold Greek struction 7-foot channel on

> Chesapeako and Delaware Canal: Delawere and karyland; enlargement of canal \$227,597

Baltimore Harbor and Channels: Drodging channels and anchorages 1300,35L

Chester River: Dredging 6-foot channel from Crumpton to Jones Landing

Corsica Edver: Dredging 3-foot channel to turning basin Centreville, including a

Wicomico Pivor: Dredging of Salisbury and in liorth and South Prongs 3222

Broad Greek: Pocomoke Sound to Little (279) Dredging 6-foot chamel from

Potomac River below Mashing ton: mouth of river to Washington Dredging 24-foot channel from

Chesapeake and Delaware Canal: Delaware and Lanyland; on-largement of canal 9416,257

,697,033

过,072,619



3223,818

Baltimore Harbor and Channels: sol arotore Dredging channels and

1932

CLiborne Hirbor: Dredging 12-foot channel and jobby work

Micomico River: Dredging at Salisbury and in Morth and South Prongs

Twitch Cove and Big traversing Smith's Island Channel 4-miles long Thoroughfare Rivor:

Chesapeake and Delaware Caral: Delaware and Laryland; on-largement of canal \$76,488

Elk and Little Elk Rivers: in lower Little Elk River Dredging 7-foot channel to Elkton and 7-foot channel  $3L_{2}152$ 

> Baltimore Harbor and Channels: anchorages Dredging channels and

Closter Miver: Dredging 6-foot chamel from Crumpton to Jones

Landing

Corsica River: turning besin Dredging 6-foot charmel to Centreville, including a .

Broad Creek: Little Annemessex River from Pocomoke Sound to Dredging 6-foot charmel

Potonice River below Mashington: mouth of river to Washington Dredging 24-foot channel from

Chesapeake and Delaware Canal: Dolewero and ibryland; onlargement of canal \$318,680

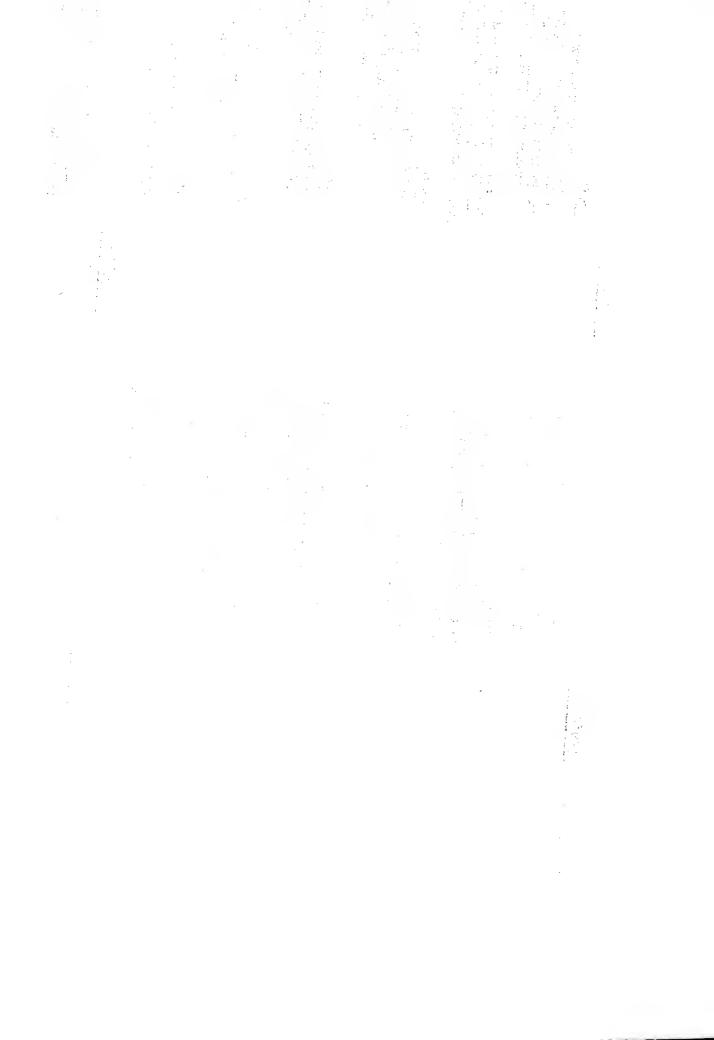
19724,525

(1,548,343

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1,346,127

\$975,677



Baltimore liarbor and Channels: Dredging channels and ' ' anchorages \$490,297

Chosapeako and Delaware Camal:

Delaware and Maryland; on-

largement of canal \$354,610

Chesapeake and Delaware Canal: Delaware and Maryland; on-largement of canal 1166,781

3657,078

Baltimore Harbor and Channels: anchorages Dredging channels and

1934

Chesapeake and Delaware Conal: Delaware and Maryland; on-largement of canal \$75,817

Baltimore Harbor and Channels: Dredging channels and

0354,810

31,011,888

anchorages

Twitch Cove and Big Thoroughing Smith's Island 2258 Channel 4-miles long trayersfare Miver:

Potomic River below Meshington: Dredging 21-foot channel from mouth of river to lashington

Chesapeake and Delaware Canal: Delaware and impland; on- 1976,872

\$433,604 \$637,952

\$204,34£

1935

Chesapeake and Delaware Canal:

Dolaware and Maryland; on-largement of canal \$5,050

Chester River: Dredging 6-foot channel from Crumpton to Jones Lending anchorages Dredging channels and

Beltimer e Marbor and Channels:

:244,505

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75,050

1936

Parish Greek:

Twitch Cove and Big Thorough-North and South Prongs 36,374

Channel 4-miles long travers-ing Smith's Island (12,5/1 fore River:

Queen City Inlet and Sinepurent Dredging and jetty congiruction

Potomic Miver below Meshington: Dredging 24-foot channel from mouth of river to Washington

Chosapeake and Delauare Cami: Delēmero and Maryland; on- 1500,474

2779,000

\$754,050

Beltinare Harbor and Channels: Drodjing channels and 2215,815

Licomico River: Dredging at Salisbury and in Horth and South Prongs, '

Queen C ity Inlet and Sine-Dredging and jetty cen-struction %3,014 puxent Bay:

Potonne River below Mashington: Bredging 24-foot channel from mouth of river to Washington 351,366

Dredging C-foot channel to South Fork of Parish anchorage Creck, also 6-foot \_ '

Chesapeake and Delaware Canel: largorest of canal Delaware and Maryland; on-

021,123



Twitch Cove and Big Thomoughfare River: traversing Smith's Island . Channels 4-miles long \$16,000

1937

Parish Greek: also 6-foot anchorage (13,877 Dredging 8-foot channel to south fork of Parish Credit,

Chesapeako and Delaware Canal: Delaware and Maryland; onlargonout of canal \$4,306,454

Chesapeake and Delaware Canal: Delaware and Maryland; oninrgement of canal \$686,518

Baltimore Harbor and Channels: Dredging channels and

Wicomico River: Dredging at Sclisbury and in North and South Prongs 3831

anchorages

Susquehanna River above and below Havro de Grace: Dredging \$25,032

Queen City Inlot and Sinc-Drodging and jetty con-struction (107,875 purent Bay:

Potomae River bolow Mashington: mouth of river to Machington Sal, 350 Dredging 24-foot channel from

Largement of canal \$279,773 Delaware and Maryland; on-

\$4,97,465

\$4,833,796

3996<sub>3</sub>453

\$970,038

Chesapeake and Delaware Canal:

Baltimore Harbor and Chamiels: Dredging charmels and 51,375

Pocomoke River: 9-foot channel to Snow through "The Muds" and Dredging 7-foot channel

: 

Chosapeako and Delaware Canal: Delaware and laryland; onlargement of caml

22,734,477

Cumberland:

flood protection of City " (21,674 Preparation of plans for

್ಲಿ, ಚಿ.7,560

Cambridge Harbor:

1939

Dredging channels and turning basins 2375

Watemay from Little Chop-Dredging 6-foot changel Piver: tank River to Choptank

Micomico River:

Drodging at Salisbury and in North and South Prongs %2,126

Ticomico River:

Dredging at Salisbury and in Morth and South Propage

Queen City Inlet and Sine-puxent Bay: Drodging onl jetty constric tion

Menticoke River (including northwest Fork) Delevere

Potome River below Washington: Dredging 24-foot elennel from mouth of river to 1/Lahington: 11,689

Ohosapuako and Dolamare Canal: Dolarare and Layland; an-Largoment of court 1921, 059

\$992**,**856

33,040,416

Broad Greek: Drodging clannels and 0274,629 Dredging 6-feet channel from Pocomoke Sound to Little

Baltimore Harbor and Channels:

Susquehenna River above and below 179

Annonosser River



Fig. 0risfield Harbor:
(cont'd) Dredging 12-foot channel
and two 7-foot channels
(742)
Upper Thoroughfore, Deal's
Island:

Telend:
Dredging and breakmeter
construction, Somerset
County

Northeast River:
Dredging 7-foot elmmel to:
the foot of C hurch Street,
in town of North East

Rock Hall Harbor:
Dredging 7-foot channel and tunning basin; breakaster construction \$37,830

Island Orock:
Dredging 8-foot channel
through entrance bar \$107

Fishing Bay:

Dredging 6-foot channels to
packing houses on McGready's

Greek, Farm Greek Goose'

Greek:

Henticoko River:

Drodging and jetty work for small bone harbor at 10 millionticoko (565,100)

Poconoke River:

Dredging 7-foot channel
through "The Lads" and 9-foot
channel to Snow Hill """

Queen City Inlet and Sinepuzent Eay: Dredging and jetty construction \$5,694

Honga River and Tar Bay (Earren Island Gaps):
Dredging 7-foot channel from Chesapeake Bay to Honga River

Pocomoke Rivor:

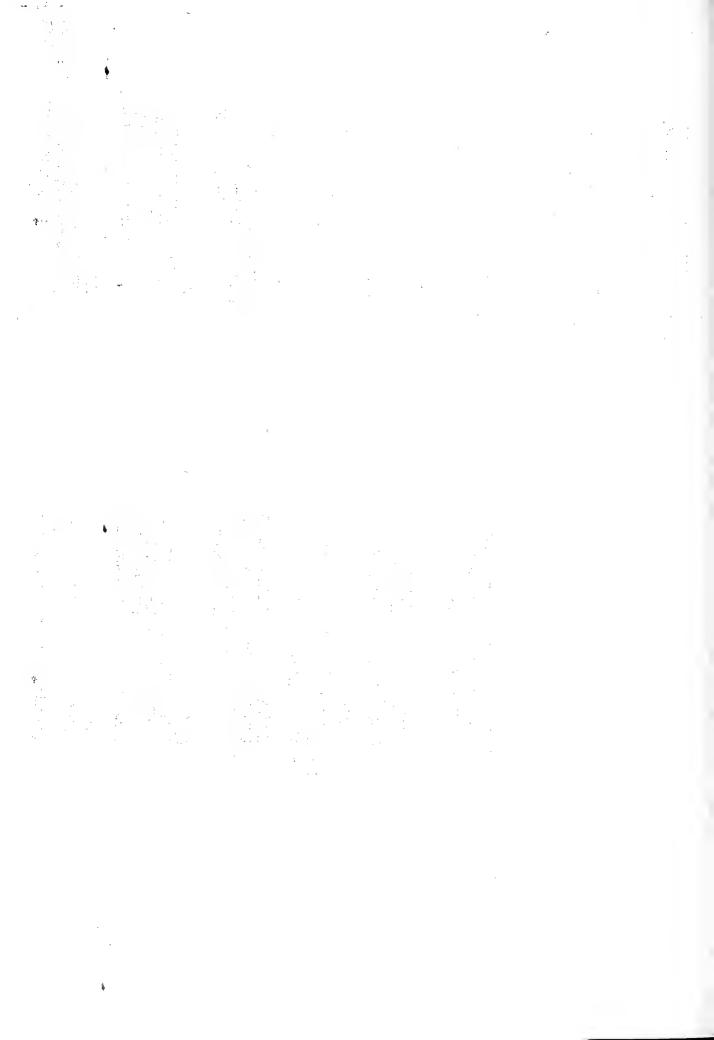
Dredging 7-foot channel through

"The Inde" and 9-feet channel

to Snow Hill \$17,505

Wenticoke Niver (including northwest Fork) Pelanere and Maryland; Dredging elammed a and basins (5,921

Petomae River below Essiington;
Dredging 24-foot channel from
mouth of river to Weshington
(388)



(contid)

Fishing Creek: Dredging 7-foot channel and anchorage near North

Back Creck, Anne Arundel Dredging defoot channel County: by a stone jetty \$14,025 into back Creek protected

Cypress Creek: Dredging 7-foot channel through entrance bar \$157

Neale Sound:

St. Jerome's Creek: Dredging channels into Neale Sound \$12 Dredging near Airedale \$12,600 \$17,856

Chesapeale and Delaware Canal: largement of canal Delaware and Waryland; en-\$148,197

Cumberland: Preparation of plans for flood protection of City \$28,168

\$396,732

\$1,020,521 \$1,417,253

Baltimore Harbor and Channels Dred ing channels and anchorages \$164,931

(cont'd)

Northeast River: Dredging 7-foot channel to in the town of North East the foot of Church Street, \$7,619

Inland Waterway from Delaware Delawere and Maryland River to Chesapeake Bay, \$362,024

Rock Hall Harbor: Dredging 7-foot channel and construction \$14,170 turning basin; breakwater

Island Creek: Dredging 8-foot channel through entrance bar

Cambridge Harbor: Dredging channels and truning basins

Fishing Bay: Dredging 6-foot clannel to Creek Creek, Farm Creek, Goose packing houses on McCready's \$21,456

Fishing Creek:

ů,

\$5,142

struction

Nanticoke River: Dredging and jetty work for Nanticoke small boat harbor at

> Susquehanna River above and below Havre de Grace

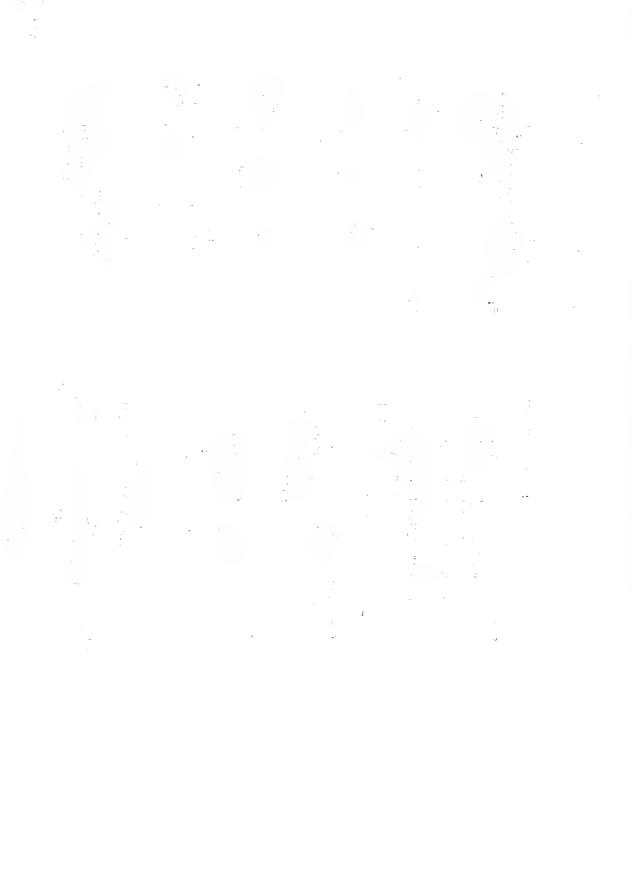
Inland Waterway from Delaware River to Chesapeake Bay, Delaware and Maryland \$987,322

Nanticoke River (including Northwest Fork) Delaware and Maryland ₩388

Upper Thoroughfare, Deals County construction, Somerset Dreding and breakwater Island:

Pocomoke River: Dredging 7-foot obtained thorough "The Muds" and 9foot Grannel to Snow Hill \$1,689

Ocean City Harbor and Inlet Twitch Cove and Big Thoroughand Sinepuxent Bay Dreding and jetty con-Channel 4-miles long fare River: traversing Smith's Island



(cont'd)

Wicomico River
Dredging at Salisbury
and in North and South
Prengs \$35,224

Upper Thoroughfare, Deals Island:
Dredging and Breakwater construction, Somerset County \$24,570

Crisfield Harbor:
Dredging 12-foot Channel
and two 7-foot channels
\$1,159

Twitch Cove and Big Thoroughfare River: Channel 4-miles long traversing Smith's Island \$59,973

Herring Bay and Rockhold
Cresk:
Drodging, breakw ter Construction 7-foot Channel
on Rockhold Cresk
\$41,045

Back Creek, Anno Arundol County: \$6,194

Annapolis Harbor:
Dredging a channel 15 feet
deep and 100 feet wide from
deep water in Severn River to
a point in Spa Greek and an
anchorage basim 12 feet deep

Potomac Rivor bolow Washington, D. C.

Drudging 24-foot channel from mouth of river to Washington \$11.011



GRAND TOTALS	Contest Cumberland, iid. and Ridgely, West Virginia Preparation of plans for flood protection of City 5,681	1940 Cypress Crock: 32,900
\$18,630,804	<b>₩</b>	
\$12,518,013	(1,180,793	
(312,516,013 \\$31,148,817	\$1,802,6 <i>4</i> 7	



WAR DEPARTMENT

SUMMARY OF EXPENDITURES MADE BY THE

CORPS OF ENGINEERS

Fiscal Year	New Werk	Maintenanco	Total
1924	\$ 2,015,523	\$ 651,152	\$ 2,664,675
1925	2,534,235	477,040	3,011,275
1926	1,874,908	202,438	2,077,346
1927	446,503	638,479	1,084,982
1928	152,536	1,098,660	1,251,196
1929	338,250	1,430,149	1,768,399
1930	3 <b>7</b> 5,786	697,033	1,072,819
1931	823,818	724,525	1,548,343
1932	975,677	369,450	1,346,127
1933	657,078	354,810	1,011,888
1934	204,548	433,604	637,952
1935	5,050	779,000	784,050
1936	26,415	970,038	996,453
1937	4,336,331	497,465	4,833,796
1938	2,847,560	992,856	3,840,416
1939	396,732	1,020,521	1,417,253
1940	622,054	1,180,793	1,802,847
TOTAL	\$ 18,630,804	\$ 12,518,013	\$ 31,148,817

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## VETERANS' ADMINISTRATION CONSTRUCTION AND SUPPLIES SERVICE

The Veterans' Administration\* administers all laws relating to the relief of, and other benefits provided for, former members of the military and naval forces. It is responsible for extending relief to veterans and to dependents of deceased veterans of all wars. These laws include in addition to compensation and pensions, Government insurance, military and naval insurance, adjusted compensation, emergency officers' retirement pay for veterans of the World War, and hospital and demiciliary care for veterans of all wars.

For the purpose of this report, data was prepared for work completed by the Construction Service of this Administration. The Director of this Service is responsible for preliminary inspection and engineering work in connection with the selection of sites, homes, and other facilities; preparation of plans, specifications and estimates covering construction and alterations, repairs of plant and equipment. He is also responsible for the supervision of the maintenance of buildings, grounds and mechanical equipment under the control of the Voterans' Administration, including motor transportation; general supervision of maintenance and operation of utilities, heating, lighting, electric power, plumbing, sewerage and refuse disposal, water supply, fire protection, refrigerating plants, carpentry, laundry, and telephone installations.

<sup>\*</sup>The Voterans' Administration was created July 21, 1930 under authorization of the Act of Congress approved July 3, 1930. This Act authorized the President to consolidate and coordinate under a single control all Federal Agencies dealing with the veterans' affairs. The order consolidated in the Veterans' Administration, the Bureau of Pensions (formerly under the Secretary of the Interior), the United States Veterans' Bureau, and the National Home for Disabled Volunteer Soldiers (now known as the National Homes Service). The Veterans' Administration is now an independent establishment under the President.

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Expenditures made by the Veterans. Administration in Maryland during the period 1924-1940 have been for additions and improvements at the Veterans. Administration Facility at Perry Point, Maryland. All of the expenditures were from appropriations of the Veterans. Administration or from appropriations made for repair, altering, and improving facilities in the hospitals and homes under jurisdiction of the Administration.

## Veterans' Administration Facility Perry Point, Maryland Additions and Botterments

1924	(1) (2) (3) (4)	Additional Hospital Buildings Improvement to Grounds Occupational Therapy Building Placing Steam Main Underground	\$1,274,645 18,487 25,300 4,750	
,	( - /	12301116 Ototal Maria Otto Device		\$1,323,182
1925	(1)	Building for Fire Alarm and Telephone Equipment	2,500	
	(2)	Addition to Basement of Diagnostic Building	3,400	5,900
1926	(1)	Kitchen and Mess Building, in- cluding Refrigeration Plant	217,585	217,585
1927	(1)	Grounds Development	11,000	11,000
1928	(1)	Construction of Porches on Patients Buildings	5 <b>,</b> 328	5,328
1929	(1)	Construction of Perches on Patients' Buildings	15,131	15,131
1930	(1)	Installing Steem Heat in Quarters Building	9,000	
	(2)	Addition to Refrigeration Plant	5,000	
	(3)	Ash Tipple at Power House	4,360	18,849
1931	(1) (2)	Additional Patients Building Auxiliary Water Supply	193,627 20,760	214 <b>,</b> 38 <b>7</b>
1932	(1) (2)	Incinerator Nurses and Attendants Quarters	8,000 240,000	248,000
1933	(1) (2) (3)	Addition to Refrigeration Plant Corrections to Heating System Installation of Pump	6,490 10,000 3,400	19,890
1934	(1)	Boundary Fence	4,450	4,450

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1935	(1)	Concrete Sidewalks	\$ 4,700	\$	4,700
1936	(1) (2)	Storm Sewer New Entrance Road	40,000 35,000		<b>7</b> 5,000
1937	(1) (2) (3)	Additional Patients Buildings Placing Electric Service Lines Under Ground Modernization of Ward Buildings	496,394 24,000 37,000		558,094
1938	(1) (2)	New Gate House Modernization of War Buildings	5,000 32,000		37,000
1939	(1) (2) (3)	Landscaping Construction of Personnel Garages Repair and Replacement of Under- ground Steam Lines	3,250 2,000 24,000		29,250
1940	(1) (2) (3)	Dredging Intake Channel New Feed Water Heater Renovation of Telephone Switch- board	5,400 19,285 3,010		27 <b>,</b> 695
		GRAND TOTAL 1924-1940		\$ 2	,815,441

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